

SAFETY DATA SHEET

Q8 Dino 4



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Q8 Dino 4
Material uses : Process oil
EC number : 934-956-3
CAS number : *

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
<input checked="" type="checkbox"/> Manufacture of substance, Industrial
Use as an intermediate, Industrial
Distribution of substance, Industrial
Formulation and (re)packing of substances and mixtures, Industrial
Use in coatings, Industrial
Use in coatings, Professional
Use in coatings - Consumer
Use in lubricants, Industrial
Use in lubricants, Professional
Use in lubricants - Consumer
Use in metal working fluids/rolling oils, Industrial
Use in metal working fluids/rolling oils, Professional
Use in fuel, Industrial
Use in fuel, Professional
Use in lubricants - Consumer
Use in functional fluids, Industrial
Use in functional fluids, Professional
Use in functional fluids - Consumer
Use in road and construction products, Professional
Use in laboratories, Industrial
Use in laboratories, Professional
Explosives manufacture and use, Industrial
Explosives manufacture and use, Professional
Use in water treatment agents, Industrial
Use in water treatment agents, Professional
Use in water treatment agents - Consumer
Use in polymer processing, Industrial
Use in polymer processing, Professional

1.3 Details of the supplier of the safety data sheet

Manufacturer / Distributor : Q8 Danmark A/S
Arne Jacobsens Allé 7
2300 København S,
Danmark
Tel. 7012 4545, Fax 4599 2020
Email: produktservice@Q8.dk, Web: www.Q8.dk

e-mail address of person responsible for this SDS : SDSinfo@Q8.com, communication preferably in English only.

1.4 Emergency telephone number

Denmark : +45 8988 2286



Q8 Dino 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Europe : +44 (0) 1235 239 670
Global (English only) : +44 (0) 1865 407 333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : VCB

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

ASPIRATION HAZARD Category 1 H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : None.

Ingredients of unknown ecotoxicity : None.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 - May be fatal if swallowed and enters airways.

Precautionary statements

Prevention : Not applicable.

Response : P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Q8 Dino 4

SECTION 2: Hazards identification

- Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : No.
P: Not available. B: Not available. T: No.
- Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : Not available.
- Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1 Substances : VCB

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	EC: 934-956-3 CAS: *	100	Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	[A]

CAS: ~ 64742-46-7

The mineral oils in the product contain < 3% DMSO extract (IP 346).

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

- Substance
 [A] Constituent
 [B] Impurity
 [C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in

SECTION 4: First aid measures

recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

Q8 Dino 4

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	EU OEL (Europe). TWA: 5 mg/m ³

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: > 8 hours (breakthrough time): nitrile rubber, polyvinyl alcohol (PVA), fluor rubber

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Q8 Dino 4

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type A) and particulate filter
Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid. [Oily liquid.]
- Appearance** : Clear.
- Color** : Colorless to light yellow.
- Odor** : Slight
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : 27°C
- Initial boiling point and boiling range** : 250°C
- Flash point** : Closed cup: >133°C [ASTM D93.]
Open cup: >115°C [ASTM D92.]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Upper/lower flammability or explosive limits** : Lower: 1%
Upper: 6%
- Vapor pressure** : 0.0003 kPa [room temperature]
- Vapor density** : Not available.
- Relative density** : 0.815
- Solubility(ies)** : Insoluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : 230°C
- Decomposition temperature** : Not available.
- Viscosity (40°C)** : 3.5 cSt
- Explosive properties** : Not applicable.
- Oxidizing properties** : Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.

Q8 Dino 4

SECTION 10: Stability and reactivity

10.5 Incompatible materials : Reactive or incompatible with the following materials:
Strong oxidizing materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	LC50 Inhalation Dusts and mists	Rat	>5266 mg/m ³	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitization

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Q8 Dino 4

SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	Acute EC50 >10000 mg/l	Algae	72 hours
	Acute EC50 >3193 mg/l	Daphnia	48 hours
	Acute EC50 >1028 mg/l	Fish	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	OECD 306	74 % - Readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	-	-	Readily

Q8 Dino 4

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : No.
P: Not available. B: Not available. T: No.

vPvB : Not available.
vP: Not available. vB: Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-

Q8 Dino 4

SECTION 14: Transport information

14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

MAL-code : 00-1

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

SECTION 15: Regulatory information

MAL-code: 00-1

Application: When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

Hazard class for water (WGK) :

VOC content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : This material is listed or exempted.
Canada : This material is listed or exempted.
China : This material is listed or exempted.
Europe : This material is listed or exempted.
Japan : **Japan inventory (ENCS):** This material is listed or exempted.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : This material is listed or exempted.
Philippines : This material is listed or exempted.
Republic of Korea : This material is listed or exempted.
Taiwan : Not determined.

Q8 Dino 4

SECTION 15: Regulatory information

- Thailand** : Not determined.
Turkey : Not determined.
United States : This material is listed or exempted.
Viet Nam : Not determined.

15.2 Chemical Safety Assessment : Complete.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Asp. Tox. 1, H304	Expert judgment

Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
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Full text of classifications [CLP/GHS]

Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
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- Training advice** : Ensure operatives are trained to minimise exposures.
Date of printing : 23-03-2018
Date of issue/ Date of revision : 23-03-2018
Date of previous issue : 14-07-2017
Version : 1.02
Prepared by : Kuwait Petroleum Research & Technology B.V., The Netherlands

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Manufacture of substance, Industrial

List of use descriptors : **Identified use name:** Manufacture of substance, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03, SU08, SU09, SU10
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC01, ERC04
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use as Intermediate, Industrial

List of use descriptors : **Identified use name:** Use as an intermediate, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03, SU08, SU09
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC06a
Market sector by type of chemical product: PC19
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Distribution of substance, Industrial

List of use descriptors : **Identified use name:** Distribution of substance, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03, SU08, SU09
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC01, ERC02, ERC03, ERC04, ERC05, ERC06a, ERC06b, ERC06c, ERC06d, ERC07
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Formulation and (re)packing of substances and mixtures, Industrial

List of use descriptors : **Identified use name:** Formulation and (re)packing of substances and mixtures, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03, SU10
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Uses in Coatings, Industrial

List of use descriptors : **Identified use name:** Use in coatings, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Market sector by type of chemical product: PC24, PC01, PC04, PC09a, PC09b, PC09c, PC15, PC18, PC23, PC31, PC34, Excipient only
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Uses in Coatings, Professional

List of use descriptors : **Identified use name:** Use in coatings, Professional
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC15, PROC19
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d
Market sector by type of chemical product: PC24, Excipient only, PC01, PC04, PC09a, PC09b, PC09c, PC15, PC18, PC23, PC31, PC34
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Lubricants, Industrial

List of use descriptors : **Identified use name:** Use in lubricants, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC17, PROC18
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04, ERC07
Market sector by type of chemical product: PC24, PC01, PC31
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Lubricants, Professional

List of use descriptors : **Identified use name:** Use in Lubricants, Professional
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08b
Market sector by type of chemical product: PC24, PC01, PC31
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Metal working fluids / rolling oils, Industrial

List of use descriptors : **Identified use name:** Use in metal working fluids/rolling oils, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC17
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Market sector by type of chemical product: Not applicable., PC25
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Metal working fluids / rolling oils, Professional

List of use descriptors : **Identified use name:** Use in metal working fluids/rolling oils, Professional
Process Category: PROC01, PROC02, PROC03, PROC05, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC17
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d
Market sector by type of chemical product: PC25
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Lubricants, Industrial

List of use descriptors : **Identified use name:** Use in fuel, Industrial
Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC16
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC07
Market sector by type of chemical product: PC13
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in Lubricants, Professional
List of use descriptors : **Identified use name:** Use in fuel, Professional
Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC16
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC09a, ERC09b
Market sector by type of chemical product: PC13
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.
Amounts used : Not applicable.
Environment factors not influenced by risk management : Not applicable.
Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in functional fluids, Industrial

List of use descriptors : **Identified use name:** Use in functional fluids, Industrial
Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC04, PROC09
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC07
Market sector by type of chemical product: PC16, PC17
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in functional fluids, Professional

List of use descriptors : **Identified use name:** Use in functional fluids, Professional
Process Category: PROC01, PROC02, PROC03, PROC08a, PROC09, PROC20
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC09a, ERC09b
Market sector by type of chemical product: PC16, PC17
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.
Amounts used : Not applicable.
Environment factors not influenced by risk management : Not applicable.
Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in road and construction products, Professional

List of use descriptors : **Identified use name:** Use in road and construction products, Professional
Process Category: PROC08a, PROC09, PROC08b, PROC10, PROC11, PROC13
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08d, ERC08f
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Application of surface coatings and binders in road and construction activities, including paving uses, manual mastic and in the application of roofing and water-proofing membranes.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in laboratories, Industrial

List of use descriptors : **Identified use name:** Use in laboratories, Industrial
Process Category: PROC10, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02, ERC04
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use of the substance within laboratory settings, including material transfers and equipment cleaning.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in laboratories, Professional

List of use descriptors : **Identified use name:** Use in laboratories, Professional
Process Category: PROC10, PROC15
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use of the substance within laboratory settings, including material transfers and equipment cleaning.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Explosives manufacture and use, Industrial
List of use descriptors : **Identified use name:** Explosives manufacture and use, Industrial
Process Category: PROC15, PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b
Substance supplied to that use in form of: As such
Sector of end use: SU03, SU08, SU09
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Market sector by type of chemical product: PC11
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Explosives manufacture and use, Professional

List of use descriptors : **Identified use name:** Explosives manufacture and use, Professional
Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC05
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08e
Market sector by type of chemical product: PC11
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Not applicable.

Organizational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in water treatment agents, Industrial

List of use descriptors : **Identified use name:** Use in water treatment agents, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC13
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC03, ERC04
Market sector by type of chemical product: PC36, PC37
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in water treatment agents, Professional

List of use descriptors : **Identified use name:** Use in water treatment agents, Professional
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC13
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08f
Market sector by type of chemical product: PC36, PC37
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of the substance for the treatment of water in open and closed systems.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Frequency and duration of use/exposure : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Industrial

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in polymer processing, Industrial

List of use descriptors : **Identified use name:** Use in polymer processing, Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC13, PROC05, PROC06, PROC09, PROC14, PROC21
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Processing of formulated polymers including material transfers, additives handling (e. g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Professional

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in polymer processing, Professional

List of use descriptors : **Identified use name:** Use in polymer processing, Professional
Process Category: PROC01, PROC02, PROC06, PROC08a, PROC08b, PROC14, PROC21
Substance supplied to that use in form of: As such
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d
Market sector by type of chemical product: PC24
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).
Physical state : liquid
Frequency and duration of use/exposure : Covers daily exposures up to 8 hours
Other conditions affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2 Operational conditions and risk management measures

Section 2.2 Control of environmental exposure

Product characteristics	: Not applicable.
Amounts used	: Not applicable.
Environment factors not influenced by risk management	: Not applicable.
Other conditions affecting environmental exposure	: Not applicable.
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Not applicable.
Organizational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to sewage treatment plant	: Not applicable.
Conditions and measures related to external treatment of waste for disposal	: Not applicable.
Conditions and measures related to external recovery of waste	: Not applicable.

Contributing scenarios: Operational conditions and risk management measures

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 3.2: Environment

Exposure assessment (environment):	: Not available.
Exposure estimation and reference to its source	: Not applicable.

Section 4 Guidance to check compliance with the exposure scenario

Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.
Environment	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)



Consumer

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Uses in Lubricants - Consumer

List of use descriptors : **Identified use name:** Use in lubricants - Consumer
Substance supplied to that use in form of: As such
Sector of end use: SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d, ERC09a, ERC09b
Market sector by type of chemical product: PC01, PC24, PC31
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Other given operational conditions affecting consumers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not available.

Annex to the extended Safety Data Sheet (eSDS)



Consumer

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in fuel - Consumer

List of use descriptors : **Identified use name:** Use in lubricants - Consumer
Substance supplied to that use in form of: As such
Sector of end use: SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC09a, ERC09b
Market sector by type of chemical product: PC13
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers consumer uses in liquid fuels.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Other given operational conditions affecting consumers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not available.

Annex to the extended Safety Data Sheet (eSDS)



Consumer

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in functional fluids - Consumer

List of use descriptors : **Identified use name:** Use in functional fluids - Consumer
Substance supplied to that use in form of: As such
Sector of end use: SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC09a, ERC09b
Market sector by type of chemical product: PC16, PC17
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Other given operational conditions affecting consumers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not available.

Annex to the extended Safety Data Sheet (eSDS)



Consumer

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario : Use in water treatment agents - Consumer

List of use descriptors : **Identified use name:** Use in water treatment agents - Consumer
Substance supplied to that use in form of: As such
Sector of end use: SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08f
Market sector by type of chemical product: PC36, PC37
Article category related to subsequent service life: Not applicable.

Processes and activities covered by the exposure scenario : Covers the use of the substance for the treatment of water in open and closed systems.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state : liquid

Other given operational conditions affecting consumers exposure : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2 Control of environmental exposure

Product characteristics : Not applicable.

Amounts used : Not applicable.

Environment factors not influenced by risk management : Not applicable.

Other conditions affecting environmental exposure : Not applicable.

Section 2 Operational conditions and risk management measures

Conditions and measures related to sewage treatment plant : Not applicable.

Conditions and measures related to external treatment of waste for disposal : Not applicable.

Conditions and measures related to external recovery of waste : Not applicable.

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not applicable.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Section 4 Guidance to check compliance with the exposure scenario

Health : Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Environment : Not available.

Annex to the extended Safety Data Sheet (eSDS)



Consumer

Identification of the substance or mixture

Product definition : VCB
Product name : Q8 Dino 4

Section 1 Title

Short title of the exposure scenario :

List of use descriptors : **Identified use name:** Use in coatings - Consumer
Substance supplied to that use in form of: As such
Sector of end use: SU21
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d
Market sector by type of chemical product: PC01, PC04, PC09a, PC09b, PC09c, PC18, PC23, PC24, PC31, PC34, PC15, Excipient only
Article category related to subsequent service life: Not applicable.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of consumer exposure

Section 2.2 Control of environmental exposure

Section 3 Exposure estimation and reference to its source

Section 3.1: Health

Exposure assessment (human): : Not available.

Section 3.2: Environment

Exposure assessment (environment): : Not available.

Section 4 Guidance to check compliance with the exposure scenario

Health : Not available.

Environment : Not available.