

SAFETY DATA SHEET

Q8 GTL Diesel



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

1.1 Product identifier

Product name : Q8 GTL Diesel
EC number : Not available.
CAS number : Not available.

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

Material uses : Not available.

Identified uses

Manufacture of substance - Industrial
 Use as an intermediate - Industrial
 Distribution of substance - Industrial
 Formulation and (re)packing of substances and mixtures - Industrial
 Use in fuel - Industrial
 Use in fuel - Industrial
 Use in fuel - Consumer

1.3 Details of the supplier of the safety data sheet

Supplier : Q8 Danmark A/S
Arne Jacobsens Allé 7
2300 København S, Danmark
Tel.: +45 7012 4545
Email: produktteknik@Q8.dk
Web: www.Q8.dk

Manufacturer / Distributor : Kuwait Petroleum Belgium N.V./S.A. / Q8Oils Italia S.r.l.
Petroleumkaai 7 / Via Volpedo 2
B-2020 Antwerp / 15050 Castellar Guidobono (AL)
Belgium / Italy

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

PCN Information contact : PCNinfo@Q8.com, communication preferably in English only.

1.4 Emergency telephone number

Denmark : +45 8988 2286
Europe : +44 (0) 1235 239 670
Global (English only) : +44 (0) 1865 407 333



National advisory body/Poison Center

Denmark : Bispebjerg Hospital - poison line : +45 8212 1212

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

[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 doctor. Do NOT induce vomiting.

Storage : Not applicable.

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

Hazardous ingredients : Q8 GTL Diesel

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

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

Detergents - Regulation (EC) No 648/2004 : 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

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

PBT	P	B	T	vPvB	vP	vB
<input checked="" type="checkbox"/> No	N/A	N/A	No	N/A	N/A	N/A

Other hazards which do not result in classification : None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<input checked="" type="checkbox"/> Distillates (Fischer-Tropsch), C8-26 Branched and Linear	REACH #: 01-0000020119-75 EC: 481-740-5 CAS: 848301-67-7	95 - 99.9	Asp. Tox. 1, H304 EUH066 See Section 16 for the full text of the H statements declared above.	-	[1]

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

Constituent

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. 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 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

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SECTION 4: First aid measures

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 an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

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".

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.

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SECTION 6: Accidental release measures

- 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.

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

No exposure limit value known.

- 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

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SECTION 8: Exposure controls/personal protection

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 : Do not ingest. If swallowed then seek immediate medical assistance. 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: < 1 hour (breakthrough time): nitrile rubber 0.17 mm.

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.

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: 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Appearance : Not available.

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SECTION 9: Physical and chemical properties

Color	: Colorless to light yellow.
Odor	: Hydrocarbon.
Odor threshold	: Not available.
Melting point/freezing point	: Not applicable.
Pour point	: <input checked="" type="checkbox"/> -40 to -10°C (-40 to 14°F)
Initial boiling point and boiling range	: <input checked="" type="checkbox"/> 50 to 380°C (302 to 716°F)
Flammability	: Not available.
Lower and upper explosion limit	: Lower: 0.5% Upper: 5%
Flash point	: Open cup: >60°C (>140°F)
Auto-ignition temperature	: 210°C (410°F)
Decomposition temperature	: Not available.
pH	: Not applicable.
Viscosity	: <input checked="" type="checkbox"/> Kinematic (40°C (104°F)): 3.5 to 3.8 mm ² /s (3.5 to 3.8 cSt)
Solubility(ies)	:

Media	Result
<input checked="" type="checkbox"/> Cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ water : 6

Vapor pressure : 0.4 kPa (<3.0002 mm Hg) [37.8°C (100°F)]

Density : 0.76 to 0.78 g/cm³ [15°C (59°F)]

Vapor density : Not available.

Explosive properties : Not available.

Oxidizing properties : Not available.

Particle characteristics

Median particle size : Not applicable.

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.

10.5 Incompatible materials : No specific data.

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

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Conclusion/Summary : Not available.

Acute toxicity estimates

NA

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
Distillates (Fischer-Tropsch), C8-26 Branched and Linear	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.

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.

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SECTION 11: Toxicological information

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.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> Q8 GTL Diesel Distillates (Fischer-Tropsch), C8-26 Branched and Linear	>6 >6.5	- 634 to 2570	high high

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<input checked="" type="checkbox"/> Q8 GTL Diesel	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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 07 01*	fuel oil and diesel

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 or ID number	UN1202	UN1202	UN1202	UN1202
14.2 UN proper shipping name	GAS OIL	GAS OIL	GAS OIL	Gas oil
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADR/RID : **Hazard identification number** 30
Limited quantity 5 L
Special provisions 640M, 664
Tunnel code (D/E)

ADN : **Special provisions** 640M

IMDG : **Emergency schedules** F-E, S-E

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SECTION 14: Transport information

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.
Special provisions A3

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 Maritime transport in bulk according to IMO instruments : 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

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Danish fire class : III-1

MAL-code : 00-1

SECTION 15: Regulatory information

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.

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) : 3

VOC content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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.

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SECTION 15: Regulatory information

Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: <input checked="" type="checkbox"/> All components are listed or exempted.
Eurasian Economic Union	: <input checked="" type="checkbox"/> Russian Federation inventory : All components are listed or exempted.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

15.2 Chemical Safety Assessment : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

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
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- 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	Calculation method

Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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Training advice : Ensure operatives are trained to minimise exposures.

Date of printing : 10-10-2022

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Date of previous issue : 18-11-2021

Version : 1.02

Prepared by : Kuwait Petroleum Research & Technology B.V., The Netherlands

Notice to reader

Q8 GTL Diesel

SECTION 16: Other information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

Section 1 - Title

Short title of the exposure scenario : Use in fuel - 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, ESVOC SPERC 7.12a.v1
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.
Additional information	: See section 3.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable (according to OECD criteria).
Amounts used	: Fraction of EU tonnage used in region 1.82E-01 Regional use tonnage 4.60E+05 Fraction of regional tonnage used locally 0.652 Annual site tonnage 1.50E+05 Maximum daily site tonnage 5.00E+05
Frequency and duration of use	: Emission days 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM) 5.00E-03 Release fraction to wastewater from process (initial release prior to RMM) 1.0E-05 Release fraction to soil from process (initial release prior to RMM) 0
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Risk from environmental exposure is driven by freshwater secondary poisoning. Treat air emission to provide a typical removal efficiency of 95 On-site wastewater treatment required. Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of 99 Oil-water separation If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of 99

Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	: Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/d) $9.3E+06$ Assumed domestic sewage treatment plant flow (m ³ /d) $2.0E+03$
Conditions and measures related to external treatment of waste for disposal	: Combustion emissions limited by required exhaust emission controls.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

General measures (aspiration) Do not ingest. If swallowed then seek immediate medical assistance.

General Measures: Skin defatting If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100 %.

Physical state : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure
Kinematic Viscosity at 40°C (cSt): < 20.5

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

Other conditions affecting workers exposure : Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation**Section 3 - Exposure estimation and reference to its source**

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : EUSES

Exposure estimation and reference to its source : Not available.

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

Section 1 - Title

Short title of the exposure scenario : Use in fuel - Professional
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: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC09a, ERC09b, ESVOC SPERC 9.12b.v1
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.
Additional information	: See section 3.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable
Amounts used	: Fraction of EU tonnage used in region 2.94E-01 Regional use tonnage 7.45E+05 Fraction of regional tonnage used locally 0.02 Annual site tonnage 1.49E+03 Maximum daily site tonnage 4.97E+03
Frequency and duration of use	: Emission days 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from wide dispersive use (regional only) 1.0E-04 Release fraction to wastewater from wide dispersive use 1.0E-05 Release fraction to soil from wide dispersive use (regional only) 1.0E-05
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: No air emission controls required; required removal efficiency is 0%. Risk from environmental exposure is driven by marine water.
Organizational measures to prevent/limit release from site	: Not applicable.

Conditions and measures related to sewage treatment plant	: Assumed domestic sewage treatment plant flow (m ³ /d) 2.0E+03
Conditions and measures related to external treatment of waste for disposal	: Combustion emissions limited by required exhaust emission controls.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

General measures (aspiration) Do not ingest. If swallowed then seek immediate medical assistance.

General Measures: Skin defatting If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100 %.
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure Kinematic Viscosity at 40°C (cSt): < 20.5
Frequency and duration of use/exposure	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	: Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented
Conditions and measures related to personal protection, hygiene and health evaluation	

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
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Exposure estimation and reference to its source - Environment: 1:

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

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

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, PROC08a, PROC08b, PROC15, PROC05, PROC09, PROC14
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, ESVOC SPERC 2.2.v1
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.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable (according to OECD criteria).
Amounts used	: Fraction of EU tonnage used in region 8.42E-01 Regional use tonnage (tonnes/year) 2.13E+06 Fraction of regional tonnage used locally 0.141 Annual site tonnage (tonnes/year) 3.00E+04 Maximum daily site tonnage (kg/day) 1.00E+05
Frequency and duration of use	: Continuous release Emission days (days per year) 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM) 2.5E-03 Release fraction to wastewater from process (initial release prior to RMM) 5.0E-06 Release fraction to soil from process (initial release prior to RMM) 1.0E-04
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Risk from environmental exposure is driven by freshwater. If discharging to municipal sewage treatment plant, no on-site wastewater treatment required. No air emission controls required; required removal efficiency is 0%. Secondary biological waste water treatment (either on-site or off-site) is required.
Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

Conditions and measures related to sewage treatment plant	: Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/d) $7.1E+05$ Assumed domestic sewage treatment plant flow (m^3/d) $2.0E+03$
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

Do not ingest. If swallowed then seek immediate medical assistance.

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100 %. Unless otherwise stated.
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure
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
Conditions and measures related to personal protection, hygiene and health evaluation	

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
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Exposure estimation and reference to its source - Environment: 1:

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

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

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, 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: ERC01, ERC04, ERC02, ERC03, ERC05, ERC06a, ERC06b, ERC06c, ERC06d, ERC07, ESVOC SPERC 1.1b.v1
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.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable (according to OECD criteria).
Amounts used	: Fraction of EU tonnage used in region 9.21E-01 Regional use tonnage (tonnes/year) 2.33E+06 Fraction of regional tonnage used locally 0.002 Annual site tonnage (tonnes/year) 4.66E+02 Maximum daily site tonnage (kg/day) 1.55E+03
Frequency and duration of use	: Continuous release Emission days (days per year) 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM) 1.0E-04 Release fraction to wastewater from process (initial release prior to RMM) 1.0E-07 Release fraction to soil from process (initial release prior to RMM) 1.0E-05
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Risk from environmental exposure is driven by freshwater secondary poisoning. Prevent discharge of undissolved substance to or recover from onsite wastewater. No air emission controls required; required removal efficiency is 0%. On-site wastewater treatment required. Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) 99 Oil-water separation If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of (%) 99

Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	: Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/d) $5.2E+04$ Assumed domestic sewage treatment plant flow (m^3/d) $2.0E+03$
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

Do not ingest. If swallowed then seek immediate medical assistance.

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100 %. Unless otherwise stated.
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure
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
Conditions and measures related to personal protection, hygiene and health evaluation	

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

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

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

Section 1 - Title

Short title of the exposure scenario : Use as an 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: ESVOC SPERC 6.1a.v1, ERC06a
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 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).
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable (according to OECD criteria).
Amounts used	: Fraction of EU tonnage used in region 0.1 Regional use tonnage (tonnes/year) 2.05E+05 Fraction of regional tonnage used locally 0.731 Annual site tonnage (tonnes/year) 1.50E+04 Maximum daily site tonnage (kg/day) 5.00E+04
Frequency and duration of use	: Continuous release Emission days (days per year) 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM) 0 Release fraction to wastewater from process (initial release prior to RMM) 1.0E-05 Release fraction to soil from process (initial release prior to RMM) 1.0E-03
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Risk from environmental exposure is driven by freshwater. If discharging to municipal sewage treatment plant, no on-site wastewater treatment required. If discharging to municipal sewage treatment plant, no on-site wastewater treatment required. No air emission controls required; required removal efficiency is 0%. Secondary biological waste water treatment (either on-site or off-site) is required.

Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	: Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/d) $3.5E+05$ Assumed domestic sewage treatment plant flow (m^3/d) $2.0E+03$
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

Do not ingest. If swallowed then seek immediate medical assistance.
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100 %. Unless otherwise stated.
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure
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
Conditions and measures related to personal protection, hygiene and health evaluation	

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

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

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

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
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC01, ERC04, ESVOC SPERC 1.1.v1
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. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic Readily biodegradable (according to OECD criteria).
Amounts used	: Fraction of EU tonnage used in region 3.95E-01 Regional use tonnage (tonnes/year) 1E+06 Fraction of regional tonnage used locally 1 Annual site tonnage (tonnes/year) 1.00E+06 Maximum daily site tonnage (kg/day) 3.33E+06
Frequency and duration of use	: Continuous release Emission days (days per year) 300
Environment factors not influenced by risk management	: Local freshwater dilution factor 40 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM) 1.0E-05 Release fraction to wastewater from process (initial release prior to RMM) 1.0E-05 Release fraction to soil from process (initial release prior to RMM) 1.0E-04
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: Risk from environmental exposure is driven by freshwater secondary poisoning. Prevent discharge of undissolved substance to or recover from onsite wastewater. Typical on-site wastewater treatment technology provides removal efficiency of (%) 99 No air emission controls required; required removal efficiency is 0%. On-site wastewater treatment required. Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) 99 Oil-water separation If discharging to municipal sewage treatment plant, provide the required on-site

	wastewater removal efficiency of (%) 99
Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	: Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/d) $9.5E+08$ Assumed domestic sewage treatment plant flow (m^3/d) $1E+04$
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2:

Do not ingest. If swallowed then seek immediate medical assistance.

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100 %. Unless otherwise stated.
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure
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
Conditions and measures related to personal protection, hygiene and health evaluation	

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

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

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human):	: Not available.
Exposure estimation and reference to its source	: Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	: Not applicable.

Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mono-constituent substance
Product name : Q8 GTL Diesel

Section 1 - Title

Short title of the exposure scenario : Use in fuel - Consumer
List of use descriptors : **Identified use name:** Use in fuel - 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, ESVOC SPERC 9.12c.v1
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.
Additional information	: See section 3.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:	
Product characteristics	: Substance is complex UVCB. Predominantly hydrophobic
Amounts used	: Fraction of EU tonnage used in region 3.04E-01 Regional use tonnage 7.70E+05 Fraction of regional tonnage used locally 0.02 Annual site tonnage 1.54E+03 Maximum daily site tonnage 4.22E+03
Frequency and duration of use	: Continuous release Emission days 365
Environment factors not influenced by risk management	: Local freshwater dilution factor 10 Local marine water dilution factor 100
Other conditions affecting environmental exposure	: Release fraction to air from wide dispersive use (regional only) 1.0E-4 Release fraction to wastewater from wide dispersive use 1.0E-5 Release fraction to soil from wide dispersive use (regional only) 1.0E-5
Conditions and measures related to sewage treatment plant	: Assumed domestic sewage treatment plant flow 2.0E+03
Conditions and measures related to external treatment of waste for disposal	: Combustion emissions limited by required exhaust emission controls.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling consumer exposure for 2:

General measures (aspiration) - Do not ingest. If swallowed then seek immediate medical assistance.

General Measures: Skin defatting - Avoid using without gloves.

Conditions and measures related to personal protection and hygiene

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : EUSES

Exposure estimation and reference to its source : Not available.

Exposure estimation and reference to its source - Consumers: 2:

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Risk management measures are based on qualitative risk characterisation.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Health : Not applicable.