



SAFETY DATA SHEET FUEL SYSTEM CLEANER

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

1.1. Product identifier

Product name FUEL SYSTEM CLEANER

Product number QFG300

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

Identified uses Fuel additive.

1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED
Bury
Lancashire
England
BL9 7NY
0161 764 5981
0161 797 5899
info@tetrosyl.com

Manufacturer TETROSYL LIMITED
Bury
Lancashire
England
BL9 7NY
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number

Emergency telephone +44 (0)161 764 5981

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Asp. Tox. 1 - H304

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram



Signal word

Danger

FUEL SYSTEM CLEANER

Hazard statements	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label). P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
Contains	POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS, DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED, HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS, DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE, POLY[OXY(1,2-PROPANEDIYL)].ALPHA.-PROPYL-.OMEGA.-HYDROXY-C12-15 ALKYL ETHERS, HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE

2.3. Other hazards

Not applicable.

SECTION 3: Composition/information on ingredients
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3.2. Mixtures

POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS	10-<30%
CAS number: —	
M factor (Acute) = 1 M factor (Chronic) = 1	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED	10-<30%	
CAS number: —	EC number: 926-141-6	REACH registration number: 01-2119484819-18-0001
Classification Asp. Tox. 1 - H304		
HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS	10-<30%	
CAS number: —	EC number: 926-141-6	
Classification Asp. Tox. 1 - H304		
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE	10-<30%	
CAS number: 64742-46-7	EC number: 265-148-2	REACH registration number: 01-2119489867-12-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
PHENOL, (DIMETHYLAMINO)METHYL- ,POLYISOBUTYLENE DERIVS.	5-<10%	
CAS number: —		
Classification Aquatic Chronic 3 - H412		
POLY[OXY(1,2-PROPANEDIYL)].ALPHA.-PROPYL- .OMEGA.-HYDROXY-C12-15 ALKYL ETHERS	1-<2.5%	
CAS number: —		
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318		

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HYDROCARBONS, C10, AROMATICS, >1%	1-<2.5%
NAPHTHALENE	
CAS number: —	EC number: 919-284-0
	REACH registration number: 01-2119463588-24-0000
Classification	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
NAPHTHALENE	
	0.1-<0.3%
CAS number: 91-20-3	EC number: 202-049-5
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Flam. Sol. 2 - H228	
Acute Tox. 4 - H302	
Carc. 2 - H351	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove affected person from source of contamination. Keep the affected person warm and at rest. Get prompt medical attention.
Inhalation	Get medical attention if any discomfort continues. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Show this Safety Data Sheet to the medical personnel.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Blistering may occur.

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Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No specific precautions due to the small quantities handled. No unusual fire or explosion hazards noted.

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Leave danger zone immediately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces. Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation. Avoid inhalation of spray mist and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid eating, drinking and smoking when using the product. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep containers upright. Store in tightly-closed, original container. Keep away from heat, sparks and open flame.

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7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

No exposure limits known for ingredient(s).

NAPHTHALENE

Long-term exposure limit (8-hour TWA): 10 53

Short-term exposure limit (15-minute): 15 80

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

Hygiene measures

Provide eyewash station and safety shower. Wash contaminated clothing before reuse. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Mild. Amine.
Melting point	Not determined.
Initial boiling point and range	>200°C @ 1.013 hPa
Flash point	74°C
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not determined.

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Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.869g/cm ³ @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	<20 mm ² /s @ 40°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react strongly with the product: Alkaline earth metals. Powdered metal.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid contact with the following materials: Strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 9.93

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Inhalation	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Ingestion	May cause discomfort if swallowed. Aspiration hazard if swallowed.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Medical considerations	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

SECTION 12: Ecological Information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not available.

Acute toxicity - aquatic invertebrates Not available.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Adsorption/desorption coefficient Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

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UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS, DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS, DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS, DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POLY[OXY(1,2-PROPANEDIYL)],.ALPHA.-(3-AMINOPROPYL)-.OMEGA.-HYDROXY-, C12-15 ALKYL ETHERS, DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

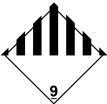
ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

FUEL SYSTEM CLEANER

Hazard Identification Number 90
(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by Health & Safety Department

Revision date 05/01/2017

Revision 0

SDS number 32176

SDS status Approved.

Hazard statements in full H226 Flammable liquid and vapour.
H228 Flammable solid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.