

## SAFETY DATA SHEET **ENGINE FLUSH**

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	ENGINE FLUSH	
Product number	QPF300, RPF300, CAV301, CPF300, ZMF300	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	
Identified uses	Additive for motor oil. Additive for diesel oil.	
1.3. Details of the supplier of	f the safety data sheet	
Supplier Manufacturer	TETROSYL LIMITEDBuryLancashireEnglandBL9 7NY0161 764 59810161 797 5899info@tetrosyl.comTETROSYL LIMITEDBuryLancashireEnglandBL9 7NY0161 764 59810161 764 59810161 764 59810161 764 59810161 797 5899info@tetrosyl.com	
1.4. Emergency telephone r	umber	
Emergency telephone	+44 (0)161 764 5981	
SECTION 2: Hazards identit	ication	
2.1. Classification of the sub	stance or mixture	
Classification (EC 1272/200		
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Aquatic Chronic 3 - H412	
Environmental	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.	
2.2. Label elements		
Hazard statements	H412 Harmful to aquatic life with long lasting effects.	

Precautionary statements	P273 Avoid release to the environment.
	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.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

**SECTION 3: Composition/information on ingredients** 

3.2. Mixtures		
DISTILLATES (PETROLEUM), H KEROSINE - UNSPECIFIED	IYDROTREATED LIGHT;	10-<30%
CAS number: —	EC number: 926-141-6	REACH registration number: 01- 2119484819-18-0001
Classification		
Asp. Tox. 1 - H304		
AROMATIC HYDROCARBONS	(<0.1% BENZENE)	10-<30%
CAS number: 64742-95-6	EC number: 918-668-5	REACH registration number: 01- 2119455851-35-0000
Classification		
Flam. Liq. 3 - H226		
STOT SE 3 - H335, H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
ETHYLENEDIAMINE		0.001 - <0.1%
CAS number: 107-15-3	EC number: 203-468-6	
Classification		
Flam. Lig. 3 - H226		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		

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. Effects may be delayed. Keep affected person under observation. Move affected person to fresh air at once. Keep affected person away from heat, sparks and flames. Place unconscious person on the side in the recovery position and ensure breathing can take place. Keep the affected person warm and at rest. Get prompt medical attention.

resulting in the same symptoms as inhalation. Congestion of the lungs may occur, producing severe shortness of breath. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause temporary eye irritation. e medical attention and special treatment needed No specific recommendations. If in doubt, get medical attention promptly. ures Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. mthe substance or mixture Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). May form explosive mixture with air at very high concentration. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. No specific firefighting precautions known.
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severe shortness of breath.
May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Fumes from the stomach contents may be inhaled,
Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
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.
and effects, both acute and delayed
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 if any discomfort continues.
Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice.
Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person. Keep affected person away from heat, sparks and flames.
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use suitable respiratory protection if ventilation is inadequate. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. For personal protection, see Section 8. Avoid inhalation of vapours and contact with skin and eyes.
6.2. Environmental precautions	
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge to the aquatic environment. Collect and dispose of spillage as indicated in Section 13.
6.3. Methods and material for c	containment and cleaning up
Methods for cleaning up	For waste disposal, see Section 13. 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. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Cover large spillages with alcohol-resistant foam. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
6.4. Reference to other section	<u>s</u>
Reference to other sections	For waste disposal, see section 13. For personal protection, see Section 8.
SECTION 7: Handling and stor	age
7.1. Precautions for safe handle	ing
Usage precautions	Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Mechanical ventilation or local exhaust ventilation may be required. Provide adequate ventilation.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Keep container tightly closed. Keep containers upright. Keep only in the original container. Avoid contact with oxidising agents. Do not store near heat sources or expose to high temperatures.
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	s/personal protection
8.1. Control parameters Occupational exposure limits ETHYLENEDIAMINE Long-term exposure limit (8-ho	ur TWA): 10 25

### 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Provide adequate ventilation.
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 should be noted that liquid may penetrate the gloves. Frequent changes are recommended. It is recommended that gloves are made of the following material: Nitrile rubber.
Other skin and body protection	Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	When using do not eat, drink or smoke. Wash hands after contact. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

## SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties	
Appearance	Clear liquid. Liquid.
Colour	Brown.
Melting point	Not determined.
Initial boiling point and range	>150°C @
Flash point	68°C
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.85 g/cm³ @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	8.0 cSt @ 40°C
9.2. Other information	
Other information	None.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	Oxidising materials.
10.2. Chemical stability	

Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Not relevant.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decompositi	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended.
SECTION 11: Toxicological in	Iformation
11.1. Information on toxicolog	ical effects
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
Notes (oral LD₅₀)	KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE
Acute toxicity - dermal Acute toxicity dermal (LD₅₀ mg/kg)	2,000.0
Species	Rabbit
Notes (dermal LD₅₀)	KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE
Acute toxicity - inhalation	
Species	Rat
Notes (inhalation LC₅₀)	KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE
General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Ingestion	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Acute and chronic health hazards	This chemical can be hazardous when inhaled and/or touched. May cause severe internal injury. Vapour from this product may be hazardous by inhalation.
Route of exposure	Inhalation Ingestion. Skin and/or eye contact Skin absorption
Medical considerations	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
SECTION 12: Ecological Info	rmation

**SECTION 12: Ecological Information** 

Ecotoxicity	Dangerous for the environment if discharged into watercourses. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
12.1. Toxicity	
Acute aquatic toxicity	
Acute toxicity - fish	NOEC, : > 0.01 - <= 0.1 mg/l, KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE
Acute toxicity - aquatic invertebrates	NOEC, : > 0.1 - <= 1.0 mg/l, KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE
12.2. Persistence and degrad	ability
Persistence and degradability	There are no data on the degradability of this product.
12.3. Bioaccumulative potentia	al
Bioaccumulative potential	 No data available on bioaccumulation.
Partition coefficient	Not determined.
	Not determined.
12.4. Mobility in soil	
Adsorption/desorption coefficient	Not available.
12.5. Results of PBT and vPv	B 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	
12.6. Other adverse effects Other adverse effects	Not available.
Other adverse effects	lerations
Other adverse effects SECTION 13: Disposal consid	lerations
Other adverse effects SECTION 13: Disposal consid 13.1. Waste treatment method	lerations ds Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in
Other adverse effects SECTION 13: Disposal consid 13.1. Waste treatment method General information	derations ds Waste is classified as hazardous waste. 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.
Other adverse effects SECTION 13: Disposal consid 13.1. Waste treatment method General information Disposal methods	derations ds Waste is classified as hazardous waste. 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.
Other adverse effects SECTION 13: Disposal consid 13.1. Waste treatment method General information Disposal methods SECTION 14: Transport inform General	derations         ds         Waste is classified as hazardous waste. 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.         mation         The product is not covered by international regulations on the transport of dangerous goods
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Other adverse effects         SECTION 13: Disposal considered in the second construction         13.1. Waste treatment methods         General information         Disposal methods         SECTION 14: Transport information         General         14.1. UN number         Not applicable.	Alerations  Is  Waste is classified as hazardous waste. 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.  mation  The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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Other adverse effects         SECTION 13: Disposal considered in the second construction         13.1. Waste treatment methods         General information         Disposal methods         SECTION 14: Transport information         General         14.1. UN number         Not applicable.         14.2. UN proper shipping name         Not applicable.         14.3. Transport hazard class (or transport labels	Iterations         Is         Waste is classified as hazardous waste. 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.         nation         The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         Image: Note: Sector: Sec

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Not applicable.

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

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

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or	r <b>mixture</b>
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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	14/06/2018
Revision	14
Supersedes date	19/04/2018
SDS status	Approved.
Hazard statements in full	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>