



SAFETY DATA SHEET HYDROLASTIC FLUID

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

1.1. Product identifier

| | |
|-------------------------|-------------------|
| Product name | HYDROLASTIC FLUID |
| Product number | XHS455, XHS000 |
| Internal identification | C |

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

| | |
|-----------------|--------------------------|
| Identified uses | Car maintenance product. |
|-----------------|--------------------------|

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 |
|----------|---|

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-----------------------|--|
| Physical hazards | Flam. Liq. 3 - H226 |
| Health hazards | Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 2 - H330 STOT SE 1 - H370 |
| Environmental hazards | Not Classified |

Human health See Section 11 for additional information on health hazards.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H226 Flammable liquid and vapour.
H302+H312 Harmful if swallowed or in contact with skin.
H330 Fatal if inhaled.
H370 Causes damage to organs .

HYDROLASTIC FLUID

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| Precautionary statements | <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective clothing and gloves.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> |
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Contains METHANOL, ETHANEDIOL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | | |
|-----------------------|----------------------|--|---------------------|
| METHANOL | | | 10-<30% |
| CAS number: 67-56-1 | EC number: 200-659-6 | REACH registration number: 01-2119433307-44-0000 | |
| Classification | | | |
| Flam. Liq. 2 - H225 | | | |
| Acute Tox. 3 - H301 | | | |
| Acute Tox. 3 - H311 | | | |
| Acute Tox. 3 - H331 | | | |
| STOT SE 1 - H370 | | | |
| ETHANEDIOL | | | 2.5-<5.0% |
| CAS number: 107-21-1 | EC number: 203-473-3 | REACH registration number: 01-2119456816-28-0000 | |
| Classification | | | |
| Acute Tox. 4 - H302 | | | |
| STOT RE 2 - H373 | | | |

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. Get medical attention immediately. |
| Inhalation | 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. Place unconscious person on the side in the recovery position and ensure breathing can take place. |

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| Ingestion | 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. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Rinse immediately with plenty of water. While rinsing, remove clothing not adhering to the affected area. Get medical attention. |
| 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. Get medical attention immediately. |

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic and corrosive gases may be formed.

5.3. Advice for firefighters

Protective actions during firefighting Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

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 Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13. Wear protective clothing as described in Section 8 of this safety data sheet. Absorb spillage with non-combustible, absorbent material. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Remove contamination with soap and water or recognised skin cleansing agent. Do not use organic solvents. 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. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

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Storage class Flammable liquid storage.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear chemical protective suit.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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|------------------------|---|
| Appearance | Oily liquid. Liquid. |
| Colour | Clear liquid. Yellow. |
| Odour | Characteristic. |
| Odour threshold | Scientifically unjustified. Scientifically unjustified. |
| pH | pH (concentrated solution): 8.6-9.6 |

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| Melting point | Scientifically unjustified. |
| Initial boiling point and range | >60°C @ |
| Flash point | 35°C |
| Upper/lower flammability or explosive limits | Scientifically unjustified. |
| Vapour pressure | Scientifically unjustified. |
| Vapour density | Scientifically unjustified. |
| Relative density | 0.94 - 0.96 @ 20°C |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | : -0.74 |
| Auto-ignition temperature | Scientifically unjustified. |
| Decomposition Temperature | Scientifically unjustified. |
| Viscosity | <50 cP @ 20°C |
| Oxidising properties | Not determined. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

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. Strong acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product is toxic.

Acute toxicity - oral

Notes (oral LD₅₀) Methanol

ATE oral (mg/kg) 336.7

Acute toxicity - dermal

ATE dermal (mg/kg) 1,038.06

Acute toxicity - inhalation

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ATE inhalation (vapours mg/l) 1.73

| | |
|---|---|
| General information | Known or suspected carcinogen for humans. Possible risk of adverse reproductive effects. |
| Inhalation | Toxic by inhalation. Toxic: danger of very serious irreversible effects through inhalation. |
| Ingestion | Toxic if swallowed. Toxic: danger of very serious irreversible effects if swallowed. |
| Skin contact | Toxic in contact with skin. Toxic: danger of serious damage to health by prolonged exposure in contact with skin. |
| Eye contact | May cause temporary eye irritation. |
| Acute and chronic health hazards | This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. May cause severe internal injury. May cause unconsciousness, blindness and possibly death. Corrosivity to eyes is assumed. Contains a substance/a group of substances which may cause cancer by inhalation. Contains a substance/a group of substances which may damage fertility and the unborn child. |
| Route of entry | Inhalation Ingestion. Skin and/or eye contact Skin absorption |

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15500 mg/l (Methanol) mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10000 mg/l (Methanol) mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient : -0.74

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered. Only experts should be permitted to carry out disposal of this material.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

HYDROLASTIC FLUID

UN No. (ADR/RID) 1986

UN No. (IMDG) 1986

UN No. (ICAO) 1986

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL)

Proper shipping name (IMDG) ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL)

Proper shipping name (ICAO) ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL)

Proper shipping name (ADN) ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID subsidiary risk 6.1

ADR/RID label 3 & 6.1

IMDG class 3

IMDG subsidiary risk 6.1

ICAO class/division 3

ICAO subsidiary risk 6.1

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-D

Emergency Action Code 3W

Hazard Identification Number (ADR/RID) 36

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

SECTION 15: Regulatory information

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

HYDROLASTIC FLUID

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

SECTION 16: Other information

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|----------------------------------|---|
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 04/04/2016 |
| Revision | 6 |
| Supersedes date | 12/09/2014 |
| Hazard statements in full | H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H330 Fatal if inhaled. H370 Causes damage to organs . |

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.