



SAFETY DATA SHEET TETRION BRUSH CLEANER

This safety data sheet is for internal use only.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name TETRION BRUSH CLEANER
Product No. BCL055
REACH Registration number 01-2119458049-33-XXXX

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

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

0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-------------------------------|---|
| Physical and Chemical Hazards | Flam. Liq. 3 - H226 |
| Human health | EUH066;STOT SE 3 - H336;STOT RE 1 - H372;Asp. Tox. 1 - H304 |
| Environment | Aquatic Chronic 2 - H411 |

Classification (1999/45/EEC) Xn;R65. Xi;R36. N;R51/53. R10, R66, R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

See section 11 for additional information on health hazards.

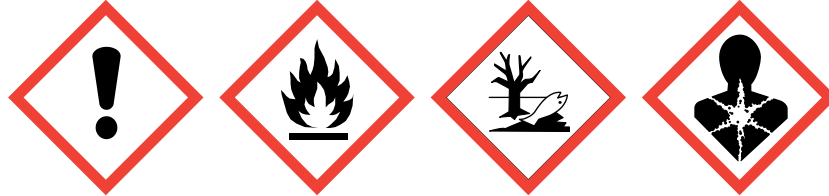
TETRION BRUSH CLEANER**Environment**

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

2.2. Label elements

Contains HYDROCARBONS, C9-12, N-ALKANES, ISOALKANES, CYCLICS, (2-25%)
AROMATICS

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to organs Central nervous system through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary Statements

| | |
|----------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P260 | Do not breathe vapour/spray. |
| P261 | Avoid breathing vapour/spray. |
| P301+310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P314 | Get medical advice/attention if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P391 | Collect spillage. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local regulations. |

Supplementary Precautionary Statements

| | |
|----------|--|
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P264 | Wash contaminated skin thoroughly after handling. |
| P370+378 | In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. |

TETRION BRUSH CLEANER

| | |
|--------------------------------|--|
| P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P403+233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+235 | Store in a well-ventilated place. Keep cool. |
| Supplemental label information | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

| | | |
|--|-----------------------------|--|
| HYDROCARBONS, C9-12, N-ALKANES, ISOALKANES, CYCLICS, (2-25%) AROMATICS | | 75.0-100% |
| CAS-No.: | EC No.: 919-446-0 | Registration Number: 01-2119458049-33-XXXX |
| Classification (EC 1272/2008) | Classification (67/548/EEC) | |
| Flam. Liq. 3 - H226 | Xn;R65. | |
| EUH066 | N;R51/53. | |
| STOT SE 3 - H336 | R10,R66,R67. | |
| STOT RE 1 - H372 | | |
| Asp. Tox. 1 - H304 | | |
| Aquatic Chronic 2 - H411 | | |
| ISOPROPYLAMINE DODECYCBENZENE SULPHONATE | | 5.0 - <10.0% |
| CAS-No.: 26264-05-1 | EC No.: 247-556-2 | |
| Classification (EC 1272/2008) | Classification (67/548/EEC) | |
| Skin Irrit. 2 - H315 | Xi;R38,R41. | |
| Eye Dam. 1 - H318 | | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

REACH Registration number 01-2119458049-33-XXXX

Composition Comments

The data shown are in accordance with the latest EC Directives. Benzene (CAS No. 71-43-2) will normally be present in trace amounts, but will always be less than the 0.1% w/w marker level in the 21st ATP to the Dangerous Substances Directive. This product is not classified as a carcinogen under the 67/548/EEC and the CHIP Regulations.

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 injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place.

TETRION BRUSH CLEANER**Ingestion**

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

4.2. Most important symptoms and effects, both acute and delayed**General information**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Vapours may cause headache, fatigue, dizziness and nausea. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. May cause chemical burns in mouth and throat. Central nervous system depression. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Irritation, burning, lachrymation, blurred vision after liquid splash.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media**Extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture**Hazardous combustion products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

Specific hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters**Special Fire Fighting Procedures**

Beware, risk of formation of toxic and corrosive gases.

TETRION BRUSH CLEANER

Protective equipment for fire-fighters
Wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material. Contact Health and Safety department on 6695 for further assistance.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Class

Flammable liquid storage.

7.3. 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**

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|---|-----|-------------|-----------------------|---------------|--|-------|
| HYDROCARBONS, C9-12, N-ALKANES, ISOALKANES, CYCLICS, (2-25%) AROMATICS | WEL | | 600 mg/m ³ | | | |

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



TETRION BRUSH CLEANER

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

Wear suitable respiratory protection. Check that mask fits tight and change filter regularly.

Hand protection

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Protection against this substance requires special consideration.

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT!

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin protection

Protection suit must be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|--|-------------------------------------|
| Appearance | Liquid |
| Colour | Blue. |
| Odour | Aromatic hydrocarbons. |
| Solubility | Insoluble in water |
| Initial boiling point and boiling range (°C) | 150 - 200°C 760 mm Hg |
| Melting point (°C) | Not determined. |
| Relative density | 0.774 - 0.795g/cm ³ 15°C |
| Vapour density (air=1) | Not determined. |
| Vapour pressure | <5hPa 20°C |
| Evaporation rate | 65 (EtEt=1) |
| Viscosity | 0.9mm ² /s 40°C |
| Decomposition temperature (°C) | Not determined. |
| Odour Threshold, Lower | Not determined. |
| Odour Threshold, Upper | Not determined. |
| Flash point (°C) | >=41°C CC (Closed cup). |
| Auto Ignition Temperature (°C) | >230°C |
| Flammability Limit - Lower(%) | 0.7 |
| Flammability Limit - Upper(%) | 7 |
| Partition Coefficient (N-Octanol/Water) | Not determined. |
| Oxidising properties | Not available. |

TETRION BRUSH CLEANER**9.2. Other information**

None.

Mol. Weight ~147.0

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability

Avoid Heat, sparks, flames.

10.3. Possibility of hazardous reactions

Not relevant

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

>15, 000 mg/kg (oral rat)

Toxic Conc. - LC 50

>13100 mg/l/4h (inh-rat)

General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in hazardous vapour concentrations.

Inhalation

Vapour may irritate respiratory system or lungs. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

Ingestion

May cause stomach pain or vomiting. Harmful: may cause lung damage if swallowed.

Skin contact

Repeated exposure may cause skin dryness or cracking. Prolonged and frequent contact may cause redness and irritation.

Eye contact

May cause temporary eye irritation.

TETRION BRUSH CLEANER**Health Warnings**

This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. Vapour from this chemical can be hazardous when inhaled.

Route of entry

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

Target Organs

Skin Central nervous system Eyes Respiratory system, lungs

Medical Symptoms

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

Medical Considerations

Skin disorders and allergies.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l <30mg/l

Acute Toxicity - Fish

Not available.

EC 50, 48 Hrs, Daphnia, mg/l <22mg/l

Acute Toxicity - Aquatic Invertebrates

Not available.

IC 50, 72 Hrs, Algae, mg/l <10mg/l

12.2. Persistence and degradability

Degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS**General information**

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

TETRION BRUSH CLEANER**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

| | |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 1263 |
| UN No. (IMDG) | 1263 |
| UN No. (ICAO) | 1263 |

14.2. UN proper shipping name

Proper Shipping Name PAINT RELATED MATERIAL (WHITE SPIRIT)

14.3. Transport hazard class(es)

| | |
|---------------------|-----------------------------|
| ADR/RID/ADN Class | 3 |
| ADR/RID/ADN Class | Class 3: Flammable liquids. |
| ADR Label No. | 3 |
| IMDG Class | 3 |
| ICAO Class/Division | 3 |
| Transport Labels | |

**14.4. Packing group**

| | |
|---------------------------|-----|
| ADR/RID/ADN Packing group | III |
| IMDG Packing group | III |
| ICAO Packing group | III |

14.5. Environmental hazards**14.6. Special precautions for user**

| | |
|-------------------------|----------|
| EMS | F-E, S-E |
| Emergency Action Code | •3YE |
| Hazard No. (ADR) | 33 |
| Tunnel Restriction Code | (D/E) |

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

TETRION BRUSH CLEANER

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.
Chemicals (Hazard Information & Packaging) Regulations.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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.

Revision Date 20/05/2015
Revision 22
Supersedes date 30/01/201 V21
Safety Data Sheet Status Approved.

Risk Phrases In Full

R10 Flammable
R65 Harmful: may cause lung damage if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R66 Repeated exposure may cause skin dryness or cracking.
R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs <<Organs>> through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Disclaimer

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.