SAFETY DATA SHEET
FLASH DASH MISC (WATERBASED)

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

1.1. Product identifier
Product name
FLASH DASH MISC (WATERBASED)
Product No.
FDO506, FSA053, FSA506, FSC053, FSC506, FSO053, FSO506, FSS053, FSS506, FSV053, FSV506, LCA400, LCO400, LCW400, RFA500, RFB500, RFV500

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
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

Manufacturer
TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
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. Aerosol 1 - H222
Human health
Not classified.
Environment
Not classified.

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

2.2. Label elements
FLASH DASH MISC (WATERBASED)

Detergent Labelling:
- 5 - < 15% Aliphatic hydrocarbons
- < 5% polycarboxylates
- perfumes
- non-ionic surfactants
- Contains Benzisothiazolinone, 2-METHYLISOTHIAZOL-3(2H)-ONE

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

Signal Word
Danger

Hazard Statements
H222 Extremely flammable aerosol.

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.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Supplemental label information
EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>DIETHANOLAMINE</th>
<th>0.1 - &lt;0.3%</th>
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<tbody>
<tr>
<td>CAS-No.: 111-42-2</td>
<td>EC No.: 203-868-0</td>
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<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td>Xn;R22, R48/22</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xi;R38, R41</td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
<tr>
<td>STOT RE 2 - H373</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PETROLEUM GASES, LIQUEFIED</th>
<th>10.0 - &lt;20.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 68476-85-7</td>
<td>EC No.: 270-704-2</td>
</tr>
</tbody>
</table>
### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General information**
Get medical attention if any discomfort continues. Remove affected person from source of contamination.

**General first aid, rest, warmth and fresh air.** NOTE! Effects may be delayed. Keep affected person under observation.

**Inhalation**
Remove victim immediately from source of exposure. In case of inhalation of spray mist: Move person into fresh air and keep at rest. Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.

**Ingestion**
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Skin contact**
Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. 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 dependant of the concentration and the length of exposure.

**NOTE! Effects may be delayed. Keep affected person under observation.**

**Inhalation**
May cause an asthma-like shortness of breath. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Drowsiness, dizziness, disorientation, vertigo. Vapours may cause drowsiness and dizziness. 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. Due to the physical nature of this material it is unlikely that swallowing will occur.

**Skin contact**
Prolonged contact may cause redness, irritation and dry skin. May cause skin irritation/eczema.

**Eye contact**
Extreme irritation of eyes and mucous membranes, including burning and tearing. Vapour, spray or dust may cause chronic eye irritation or eye damage. May cause blurred vision and serious eye damage.

#### 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
**FLASH DASH MISC (WATERBASED)**

**Extinguishing media**
Use: Foam, carbon dioxide or dry powder. Water spray. 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**
In case of fire, toxic gases (CO, CO2, NOx) may be formed. During fire, toxic gases (CO, CO2, NOx) are formed.

**Unusual Fire & Explosion Hazards**
Extremely flammable. Severe explosion hazard when vapours are exposed to flames. Risk of explosion if heated. 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. Heat may cause the containers to explode. Aerosol cans may explode in a fire.

**Specific hazards**
Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive air mixtures even at room temperature.

**5.3. Advice for firefighters**

**Special Fire Fighting Procedures**
Be aware of risk of fire re-starting, and risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Use water to keep fire exposed containers cool and disperse vapours.

**Protective equipment for fire-fighters**
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and aerosol spray. In case of spills, beware of slippery floors and surfaces.

**6.2. Environmental precautions**
Avoid discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

**6.3. Methods and material for containment and cleaning up**
For waste disposal, see section 13. If leakage cannot be stopped, evacuate area. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Remove sources of ignition. Collect with absorbent, non-combustible material into suitable containers.

**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.

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**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**
Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Wear full protective clothing for prolonged exposure and/or high concentrations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Mechanical ventilation or local exhaust ventilation may be required. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

**7.2. Conditions for safe storage, including any incompatibilities**
FLASH DASH MISC (WATERBASED)

Keep away from heat, sparks and open flame. Keep upright. Protect against physical damage and/or friction. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Do not store for long periods or in large quantities. Store in a cool and well-ventilated place. Store in a dry place. Do not store near heat sources or expose to high temperatures.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIETHANOLAMINE</td>
<td>OES</td>
<td>3 ppm</td>
<td>15 mg/m3</td>
<td></td>
</tr>
<tr>
<td>PETROLEUM GASES, LIQUEFIED</td>
<td>WEL</td>
<td>1000 ppm</td>
<td>1750 mg/m3</td>
<td>1250 ppm</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.
Carc = Capable of causing cancer and/or heritable genetic damage.

8.2. Exposure controls

Protective equipment

Engineering measures
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.
Provide explosion proof ventilation for high concentrations.
Respiratory equipment
In case of inadequate ventilation use suitable respirator.
Hand protection
No specific hand protection noted, but gloves may still be advisable.
Eye protection
Wear approved, tight fitting safety glasses where splashing is probable.
Other Protection
Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin 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. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA! When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Aerosol.
Colour: White.
FLASH DASH MISC (WATERBASED)

Odour Characteristic.
Solubility Soluble in water.
Initial boiling point and boiling range (°C)
Technically not feasible.
Melting point (°C)
Not determined.
Relative density 0.975
Vapour density (air=1)
Not determined.
Vapour pressure
Not determined.
Evaporation rate
Not determined.
PH-Value, Conc. Solution 9
Viscosity 800-1000 cP
Decomposition temperature (°C)
Not determined.
Odour Threshold, Lower
Not determined.
Odour Threshold, Upper
Not determined.
Flash point (°C)
Technically not feasible.
Auto Ignition Temperature (°C)
Not determined.
Flammability Limit - Lower(%) Not determined.
Flammability Limit - Upper(%) Not determined.
Partition Coefficient (N-Octanol/Water)
Not determined.
Oxidising properties
Not available.

9.2. Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product. The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Not relevant

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

10.5. Incompatible materials
FLASH DASH MISC (WATERBASED)

Materials To Avoid
No incompatible groups noted.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information
No information available.

Carcinogenicity:
Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:
No evidence of reproductive toxicity in animal studies

Target Organs
Central nervous system
Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

Target Organs
Skin
Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard:
Not relevant, due to the form of the product.

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

Inhalation
Vapour from this chemical can be hazardous when inhaled. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Ingestion
No harmful effects expected in amounts likely to be ingested by accident.

Skin contact
Contains components which may penetrate the skin. Repeated exposure may cause skin dryness or cracking.

Eye contact
Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings
Irritant of eyes and mucous membranes. Gas or vapour is harmful on prolonged exposure or in high concentrations. CNS depressant.

Route of entry
Inhalation. Skin and/or eye contact.

Target Organs
Central nervous system  Eyes  Skin
FLASH DASH MISC (WATERBASED)

Medical Symptoms
Skin irritation. Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

Medical Considerations
Skin disorders and allergies. Pre-existing eye problems.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity
Acute Toxicity - Fish
Not determined.
Acute Toxicity - Aquatic Invertebrates
Not determined.
Acute Toxicity - Aquatic Plants
Not determined.

12.2. Persistence and degradability
Degradability
No data available.

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
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
UN No. (ADR/RID/ADN) 1950
UN No. (IMDG) 1950
14.2. UN proper shipping name
Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)
ADR/RID/ADN Class 2
ADR/RID/ADN Class Class 2: Gases
ADR Label No. 2.1
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group
ADR/RID/ADN Packing group N/A
IMDG Packing group N/A
ICAO Packing group N/A

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user
EMS F-D, S-U
Tunnel Restriction Code (D)

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

SECTION 15: REGULATORY INFORMATION

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

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 17/10/2013
Revision 8
Supersedes date 02/10/2012
Safety Data Sheet Status Approved.

Risk Phrases In Full
R12 Extremely flammable.
R22 Harmful if swallowed.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.

Hazard Statements In Full
H318 Causes serious eye damage.
H315 Causes skin irritation.
H280 Contains gas under pressure; may explode if heated.
H222 Extremely flammable aerosol.
H220 Extremely flammable gas.
H302 Harmful if swallowed.
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.