



## SAFETY DATA SHEET FLAT MATE

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

#### 1.1. Product identifier

Product name FLAT MATE  
Product No. CFM300, CFM500, CFM506, UFM300, CFM400, LFM300

#### 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

#### 1.4. Emergency telephone number

0161 764 5981

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) F+;R12.

#### 2.2. Label elements

Detergent Labelling:

>= 30% Aliphatic hydrocarbons

Labelling



Extremely flammable

Risk Phrases

R12 Extremely flammable.

Safety Phrases

A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
A2 Do not spray on a naked flame or any incandescent material.  
S2 Keep out of the reach of children.  
S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour/spray.

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S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.

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

BUTANE/PROPANE BLEND	30-60%
CAS-No.: 68476-85-7	EC No.: 270-704-2
Classification (EC 1272/2008) Flam. Liq. 1 - H224	Classification (67/548/EEC) F+;R12.
ETHANEDIOL	1-5%
CAS-No.: 107-21-1	EC No.: 203-473-3
	Registration Number: 01-2119456816-28
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22

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

**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

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice.

## 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.

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### 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**

#### Extinguishing media

Use: Foam, carbon dioxide or dry powder. Water. 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, CO<sub>2</sub>, NO<sub>x</sub>) may be formed. During fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) 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.

## 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.

**FLAT MATE****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.

**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**

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**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANE/PROPANE BLEND	WEL	1000 ppm	1750 mg/m <sup>3</sup>	1250 ppm	2180 mg/m <sup>3</sup>	Carc
ETHANEDIOL	WEL		10 mg/m <sup>3</sup>		104 mg/m <sup>3</sup>	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

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.

**FLAT MATE****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.
Solubility	Insoluble in water
Initial boiling point and boiling range	Technically not feasible. <35
Melting point (°C)	Scientifically unjustified.
Vapour density (air=1)	Scientifically unjustified.
Vapour pressure	Scientifically unjustified.
Evaporation rate	Scientifically unjustified.
Decomposition temperature (°C)	Scientifically unjustified.
Odour Threshold, Lower	Scientifically unjustified.
Odour Threshold, Upper	Scientifically unjustified.
Flash point	Technically not feasible. 0
Auto Ignition Temperature (°C)	Scientifically unjustified.
Flammability Limit - Lower(%)	Scientifically unjustified.
Flammability Limit - Upper(%)	Scientifically unjustified.
Partition Coefficient (N-Octanol/Water)	Scientifically unjustified.
Oxidising properties	Not available.

**9.2. Other information**

None.

Mol. Weight 1

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

**FLAT MATE**

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**

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

**Specific target organ toxicity - single exposure:**

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.

**Specific target organ toxicity - repeated exposure:**

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.

**FLAT MATE****Eye contact**

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

**Health Warnings**

This chemical can be hazardous when inhaled and/or touched. May cause severe internal injury. Vapour from this chemical can be hazardous when inhaled.

**Route of entry**

Inhalation. Skin and/or eye contact.

**Target Organs**

Central nervous system Eyes Skin

**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 available.

**Acute Toxicity - Aquatic Invertebrates**

Not available.

**12.2. Persistence and degradability****Degradability**

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Scientifically unjustified.

**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**

**FLAT MATE**

## 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
UN No. (ICAO)	1950

**14.2. UN proper shipping name**

Proper Shipping Name	AEROSOLS
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**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	2.1
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	#
IMDG Packing group	#
ICAO Packing group	#

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant  
No.

**14.6. Special precautions for user**

EMS	F-D, S-U
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**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**



**FLAT MATE**

## 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 06/08/2012  
Revision 8  
Supersedes date 20/07/2011 v7  
Safety Data Sheet Status Approved.

## Risk Phrases In Full

R12 Extremely flammable.  
R22 Harmful if swallowed.

## Hazard Statements In Full

H222 Extremely flammable aerosol.  
H224 Extremely flammable liquid and vapour.  
H302 Harmful if swallowed.