



## 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 number** CFM300, CFM500, CFM506, UFM300, CFM400, LFM300, SFM400

#### 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

**Manufacturer** TETROSYL LIMITED  
Bury  
Lancashire  
England  
BL9 7NY  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

#### 1.4. Emergency telephone number

**Emergency telephone** 0161 764 5981

### SECTION 2: Hazards identification

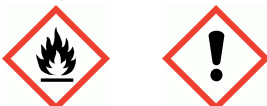
#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319  
**Environmental hazards** Not Classified

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

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<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H315 Causes skin irritation. H319 Causes serious eye irritation.
<b>Precautionary statements</b>	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, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>BUTANE</b>	<b>30-&lt;60%</b>
CAS number: 106-97-8	EC number: 203-448-7
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas	
<b>ETHANEDIOL</b>	<b>10-&lt;30%</b>
CAS number: 107-21-1	EC number: 203-473-3
	REACH registration number: 01-2119456816-28-0000
<b>Classification</b> Acute Tox. 4 - H302 STOT RE 2 - H373	
<b>Fatty acids, C18 and C18-unsatd., potassium salts</b>	<b>1-&lt;2.5%</b>
CAS number: 68647-90-5	EC number: 271-976-5
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues. 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. Effects may be delayed. Keep affected person under observation.
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<b>Inhalation</b>	Remove affected person from source of contamination. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. 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. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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 promptly if symptoms occur after washing.

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

<b>General information</b>	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.
<b>Inhalation</b>	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. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
<b>Ingestion</b>	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.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. May cause skin irritation/eczema.
<b>Eye contact</b>	Severe irritation, 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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Foam, carbon dioxide or dry powder. Water spray. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

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<b>Specific hazards</b>	Containers can burst violently or 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 mixtures with air. 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 and travel a considerable distance to a source of ignition and flash back. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
<b><u>5.3. Advice for firefighters</u></b>	
<b>Protective actions during firefighting</b>	Risk of re-ignition after fire has been extinguished. 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.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours. In case of spills, beware of slippery floors and surfaces.
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#### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.
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#### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	For waste disposal, see Section 13. If leakage cannot be stopped, evacuate area. 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. No smoking, sparks, flames or other sources of ignition near spillage. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.
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#### **6.4. Reference to other sections**

<b>Reference to other sections</b>	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**

<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. 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. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Do not use in confined spaces without adequate ventilation and/or respirator. Mechanical ventilation or local exhaust ventilation may be required. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapours and spray/mists.
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### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from heat, sparks and open flame. Keep containers 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. Do not store in large quantities. Store in a cool and well-ventilated place. Keep container dry. 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/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **BUTANE**

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

##### **ETHANEDIOL**

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m<sup>3</sup> vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m<sup>3</sup> vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

### 8.2. Exposure controls

#### Protective equipment



#### **Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients. Use explosion-proof general and local exhaust 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**

No specific hand protection recommended. 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. Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### **Hygiene measures**

Wash contaminated clothing before reuse. Wash 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 and water if skin becomes contaminated. Do not smoke in work area. When using do not eat, drink or smoke.

#### **Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

## FLAT MATE

<b>Appearance</b>	Aerosol.
<b>Colour</b>	White.
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Technically not feasible.
<b>Flash point</b>	Technically not feasible.
<b>Evaporation rate</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	<110 kPa @ °C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	<1 @ °C
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.

### 9.2. Other information

<b>Other information</b>	None.
<b>Molecular weight</b>	1

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product. Vapours may form explosive mixtures with air.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not relevant.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

## FLAT MATE

<b>Toxicological effects</b>	No information available.
<b><u>Acute toxicity - oral</u></b>	
<b>ATE oral (mg/kg)</b>	5,000.0
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No evidence of reproductive toxicity in animal studies.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.
<b>Target organs</b>	Skin
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not applicable.
<b><u>General information</u></b>	
<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Inhalation</b>	Vapour from this product may be hazardous by inhalation. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin contact</b>	Contains components which may penetrate the skin. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Acute and chronic health hazards</b>	Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Gas or vapour is harmful on prolonged exposure or in high concentrations. A single exposure may cause the following adverse effects: Central nervous system depression.
<b>Route of entry</b>	Inhalation Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Skin
<b>Medical symptoms</b>	Skin irritation. Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.
<b>Medical considerations</b>	Skin disorders and allergies. Pre-existing eye problems.

### SECTION 12: Ecological Information

<b>Ecotoxicity</b>	The product contains a substance which has a photochemical ozone creation potential.
<b><u>12.1. Toxicity</u></b>	
<b>Acute toxicity - fish</b>	Not available.

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**Acute toxicity - aquatic invertebrates** Not available.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 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

**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

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** 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. Do not puncture or incinerate, even when empty.

**Disposal methods** 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.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (ADN)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

**Proper shipping name (ICAO)** AEROSOLS

**Proper shipping name (ADN)** AEROSOLS

### 14.3. Transport hazard class(es)

**ADR/RID class** 2.1

**ADR/RID classification code** 5F



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ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ADN packing group	None
ICAO packing group	None

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 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 mixture

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). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (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.
Revision date	25/01/2016
Revision	12

## FLAT MATE

<b>Supersedes date</b>	28/04/2014
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.