



**SAFETY DATA SHEET**  
**Brush Mate Fluid (including Vapour**  
**Mate impregnated pads)**

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

**1.1. Product identifier**

**Product name** Brush Mate Fluid

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

**Identified uses** Solvent for Industrial Use

**1.3. Details of the supplier of the safety data sheet**

**Supplier** Gordon Products Ltd  
 100 Main Street  
 Frodsham  
 Cheshire  
 WA6 7AR

+44 (0)1928 732 158 (Tel)  
 +44 (0)1928 739 710 (Fax)

**Contact person** info@brushmate.co.uk

**1.4. Emergency telephone number**

**Emergency telephone** 0870 190 6777 (National Chemical Emergency Centre)

**SECTION 2: Hazards identification**

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

**Classification (EC 1272/2008)**

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H336  
 STOT RE 1 - H372 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

**2.2. Label elements**

**Hazard pictograms**



**Signal word**

Danger

## Brush Mate Fluid

<b>Hazard statements</b>	<p>H226 Flammable liquid and vapour.  H315 Causes skin irritation.  H318 Causes serious eye damage.  H317 May cause an allergic skin reaction.  H351 Suspected of causing cancer.  H336 May cause drowsiness or dizziness.  H372 Causes damage to organs through prolonged or repeated exposure.  H411 Toxic to aquatic life with long lasting effects.  H304 May be fatal if swallowed and enters airways.</p>
<b>Precautionary statements</b>	<p>P260 Do not breathe vapour/ spray.  P262 Do not get in eyes, on skin, or on clothing.  P271 Use only outdoors or in a well-ventilated area.  P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  P331 Do NOT induce vomiting.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  The material and container must be disposed of as hazardous waste.</p>
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.
<b>Contains</b>	ETHYL METHYL KETOXIME, Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics, BUTANOL-norm, HYDROCARBONS, C9, aromatics, CYCLOHEXANONE

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ETHYL METHYL KETOXIME</b>	<b>30-60%</b>
CAS number: 96-29-7	EC number: 202-496-6
	REACH registration number: 01-2119539477-28-0000
<b>Classification</b>	
Acute Tox. 4 - H312	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Carc. 2 - H351	
<b>Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics</b>	<b>30-60%</b>
CAS number: —	EC number: 919-446-0
	REACH registration number: 01-2119458049-33-xxxx
<b>Classification</b>	
Flam. Liq. 3 - H226	
STOT SE 3 - H336	
STOT RE 1 - H372	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

## Brush Mate Fluid

<b>BUTANOL-norm</b>		<b>5-10%</b>
CAS number: 71-36-3	EC number: 200-751-6	REACH registration number: 01-2119484630-38-xxxx
<b>Classification</b>		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
STOT SE 3 - H335, H336		
<b>HYDROCARBONS, C9, aromatics</b>		<b>5-10%</b>
CAS number: —	EC number: 918-668-5	REACH registration number: 01-2119455851-35-xxxx
<b>Classification</b>		
Flam. Liq. 3 - H226		
STOT SE 3 - H335, H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
<b>CYCLOHEXANONE</b>		<b>1-5%</b>
CAS number: 108-94-1	EC number: 203-631-1	REACH registration number: 01-2119453616-35-xxxx
<b>Classification</b>		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		

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

**Composition comments** Benzene may be present but always below 0.1%

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	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. If breathing stops, provide artificial respiration. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	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. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

## Brush Mate Fluid

**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

**General information** No additional symptoms or effects are anticipated.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog. Water spray, fog or mist.

**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

**Specific hazards** The product is flammable. Heating may generate flammable vapours. Vapours may form explosive mixtures with air. Vapours may be ignited by a spark, a hot surface or an ember.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Keep up-wind to avoid fumes. Fight fire from safe distance or protected location. Move containers from fire area if it can be done without risk. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. Do not use water jet as an extinguisher, as this will spread the fire.

**Special protective equipment for firefighters** 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

**Personal precautions** Ensure suitable respiratory protection is worn during removal of spillages in confined areas. No smoking, sparks, flames or other sources of ignition near spillage. Do not breathe vapour.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if this occurs.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Do not allow to enter drains, sewers or watercourses. Inform authorities if large amounts are involved. Spillage may be stored as chemical waste in approved area.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

## Brush Mate Fluid

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be earthed. Protect electric equipment against sparking in case of risk of explosion. Container must be kept tightly closed when not in use.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Avoid contact with oxidising agents. Keep away from oxidising materials, heat and flames. Earth container and transfer equipment to eliminate sparks from static electricity. Keep only in the original container. Suitable container materials: Mild steel. Stainless steel. Do not use containers made of the following materials: aluminium, copper, PVC.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Usage description** Storage tanks must be positioned within a bunded area.

## **SECTION 8: Exposure controls/Personal protection**

### 8.1. Control parameters

#### Occupational exposure limits

#### **Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics**

Long-term exposure limit (8-hour TWA): WEL 350 mg/m<sup>3</sup>

#### **BUTANOL-norm**

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m<sup>3</sup>

Sk

#### **HYDROCARBONS, C9, aromatics**

Long-term exposure limit (8-hour TWA): OEL 100 mg/m<sup>3</sup>

#### **CYCLOHEXANONE**

Long-term exposure limit (8-hour TWA): WEL 10 ppm 41 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 20 ppm 82 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

OEL = Occupational Exposure Limit.

Sk = Can be absorbed through the skin.

#### **ETHYL METHYL KETOXIME (CAS: 96-29-7)**

<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 1.3 mg/kg/day Workers - Inhalation; Long term systemic effects: 9 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 0.78 mg/kg/day General population - Inhalation; Long term systemic effects: 2.7 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.256 mg/l Water, Intermittent release; 0.118 mg/l STP; 177 mg/l

#### **Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics**

## Brush Mate Fluid

<b>DNEL</b>	Industry - Dermal; Long term systemic effects: 44 mg/kg/day Industry - Inhalation; Long term systemic effects: 330 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 71 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 26 mg/kg/day
<b>PNEC</b>	PNEC is not meaningful for petroleum substances. Aquatic PNECs for hydrocarbon blocks are derived using HC5 method and target lipid model using representative structures.

### CYCLOHEXANONE (CAS: 108-94-1)

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
<b>DNEL</b>	Industry - Dermal; Short term : 100 mg/kg/day Industry - Inhalation; Short term : 100 mg/m <sup>3</sup> Industry - Dermal; Long term : 10 mg/kg/day Industry - Inhalation; Long term : 80 mg/m <sup>3</sup> Consumer - Dermal; Short term : 30 mg/kg/day Consumer - Inhalation; Short term : 50 mg/m <sup>3</sup> Consumer - Oral; Short term : 10 mg/kg/day Consumer - Dermal; Long term : 20 mg/kg/day Consumer - Inhalation; Long term : 20 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.0329 mg/l - marine water; 0.00329 mg/l - STP; 10 mg/l - Sediment; Freshwater 0.0951 mg/kg - Soil; 0.0143 mg/kg

## 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. Use explosion-proof general and local exhaust ventilation.

### Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

### Other skin and body protection

Use barrier creams to prevent skin contact. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Eating, smoking and water fountains prohibited in immediate work area. Do not smoke in work area.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Check that the respirator fits tightly and the filter is changed regularly.

## Brush Mate Fluid

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Flash point</b>	38°C Closed cup.
<b>Vapour density</b>	>1
<b>Relative density</b>	0.858 @ 15°C
<b>Solubility(ies)</b>	Slightly soluble in water.

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

#### 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. Acids

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** ASPIRATION HAZARD - do not breath vapour or spray. May cause lung damage if material gets into the lungs after accidental swallowing or vomiting of ingested material.

#### Acute toxicity - oral

**ATE oral (mg/kg)** 5,000.0

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 3,235.29

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 1,100.0

#### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

#### Respiratory sensitisation

## Brush Mate Fluid

<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitizer.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<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. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
<b>Inhalation</b>	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Overexposure may depress the central nervous system, causing dizziness and intoxication.
<b>Ingestion</b>	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin contact</b>	Harmful in contact with skin. May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>Acute and chronic health hazards</b>	Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Central and/or peripheral nervous system damage. Brain damage.
<b>Route of exposure</b>	Inhalation Skin and/or eye contact
<b>Target organs</b>	Respiratory system, lungs Skin Eyes
<b>Medical symptoms</b>	Skin irritation. Irritation of eyes and mucous membranes. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
<b>Medical considerations</b>	Skin disorders and allergies. Convulsions. Central nervous system depression. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### Toxicological information on ingredients.

#### ETHYL METHYL KETOXIME

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,528.0

**Species** Rat

**ATE oral (mg/kg)** 2,528.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,500.0

**Species** Rabbit



## Brush Mate Fluid

<b>ATE dermal (mg/kg)</b>	1,500.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	20.0
<b>Species</b>	Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Slightly irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	There is no evidence that the product can cause respiratory hypersensitivity.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No evidence of reproductive toxicity in animal studies.
<b>Reproductive toxicity - development</b>	No evidence of developmental toxicity.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure. Liver. Spleen.
<b>Inhalation</b>	Harmful by inhalation.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Harmful in contact with skin.
<b>Eye contact</b>	Causes serious eye damage.
<b><u>Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics</u></b>	
<b>Other health effects</b>	There is no evidence that the product can cause cancer.
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	15,000.0
<b>Species</b>	Rat

## Brush Mate Fluid

<b>ATE oral (mg/kg)</b>	15,000.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	3,400.0
<b>Species</b>	Rat
<b>ATE dermal (mg/kg)</b>	3,400.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	13,100.0
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	13,100.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema -barely perceptible (1). Not irritating.
<b>Extreme pH</b>	Not irritating. Non Corrosive to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	There is no evidence that the material can lead to respiratory hypersensitivity.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 300 mg/kg, Oral, Rat Highly unlikely to be carcinogenic and are not classifiable as carcinogens.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening: - NOAEC >300 , Inhalation, Rat P Units ppm.
<b>Reproductive toxicity - development</b>	Fetotoxicity: - NOAEC: >300 , Inhalation, Rat Units ppm. No evidence of developmental toxicity.
<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>	

## Brush Mate Fluid

**STOT - repeated exposure** NOAEL 1056 mg/kg, Oral, Rat

### Aspiration hazard

**Aspiration hazard** The fluid can enter the lungs and cause damage (chemical pneumonitis, possibly fatal). Kinematic viscosity  $\leq 20.5 \text{ mm}^2/\text{s}$ .

**Inhalation** Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness.

**Ingestion** If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). May cause stomach pain or vomiting.

**Skin contact** Prolonged or repeated exposure may cause the following adverse effects: Dry skin. Irritation.

**Eye contact** May cause temporary eye irritation. Redness.

**Route of exposure** Skin and/or eye contact Inhalation

**Target organs** Central nervous system

### CYCLOHEXANONE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,620.0

**Species** Rat

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,100.0

**Species** Rabbit

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 11.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 11.0

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** : Not mutagenic.

#### Carcinogenicity

**Carcinogenicity** Highly unlikely to be carcinogenic and are not classifiable as carcinogens.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## Brush Mate Fluid

<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
<b>Inhalation</b>	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Overexposure may depress the central nervous system, causing dizziness and intoxication. Harmful by inhalation.
<b>Ingestion</b>	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>Acute and chronic health hazards</b>	Prolonged contact may cause dryness of the skin. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Central and/or peripheral nervous system damage. Brain damage.
<b>Route of exposure</b>	Ingestion. Inhalation
<b>Target organs</b>	Brain Respiratory system, lungs Mucous membranes
<b>Medical symptoms</b>	Skin irritation. Irritation of eyes and mucous membranes. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
<b>Medical considerations</b>	Skin disorders and allergies. Convulsions. Central nervous system depression. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### SECTION 12: Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

##### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

##### CYCLOHEXANONE

**Ecotoxicity** Not regarded as dangerous for the environment.

#### 12.1. Toxicity

**Toxicity** Not stated

#### Ecological information on ingredients.

##### ETHYL METHYL KETOXIME

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Oryzias latipes (Red killifish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 201 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 11.8 mg/l, Scenedesmus capricornutum

## Brush Mate Fluid

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10 - 30 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 10 - 22 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 4.6 - 10 mg/l, Pseudokirchneriella subcapitata

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOELR, 28 days: 0.13 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOELR, 21 days: 0.28 mg/l, Daphnia magna

### CYCLOHEXANONE

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: ~ 500 mg/l, Pimephales promelas (Fat-head Minnow)

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

### ETHYL METHYL KETOXIME

**Persistence and degradability** Inherently biodegradable.

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

**Persistence and degradability** The product is readily biodegradable.

**Phototransformation** Scientifically unjustified.  
This substance does not have the potential to undergo photolysis in water and soil, and this fate process will not contribute to a measurable degradative loss of this substance from the environment.

**Stability (hydrolysis)** Scientifically unjustified.

**Biodegradation** - Degradation (%) 75: 28 days

### CYCLOHEXANONE

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

### 12.3. Bioaccumulative potential

#### Ecological information on ingredients.

### ETHYL METHYL KETOXIME

**Bioaccumulative potential** The product is not bioaccumulating.

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

## Brush Mate Fluid

<b>Bioaccumulative potential</b>	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
<b>Partition coefficient</b>	Technically not feasible. Substance is a UVCB. Standard tests for this endpoint are intended for single substances, and are not appropriate for this complex substance.

### CYCLOHEXANONE

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	: 0.86

#### 12.4. Mobility in soil

##### Ecological information on ingredients.

### ETHYL METHYL KETOXIME

<b>Mobility</b>	The product has negligible sorption to soil and sediment. Rapid migration potential to groundwater.
-----------------	---

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

<b>Mobility</b>	Given its physical and chemical characteristics, the product has no soil mobility. The product evaporates readily in air. The product is insoluble in water. Floats on water.
<b>Adsorption/desorption coefficient</b>	Scientifically unjustified. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
<b>Henry's law constant</b>	Scientifically unjustified. Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.

### CYCLOHEXANONE

<b>Adsorption/desorption coefficient</b>	Not available.
--	----------------

#### 12.5. Results of PBT and vPvB assessment

##### Ecological information on ingredients.

### ETHYL METHYL KETOXIME

<b>Results of PBT and vPvB assessment</b>	Not applicable.
---	-----------------

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
---	---

### CYCLOHEXANONE

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
---	---

#### 12.6. Other adverse effects

##### Ecological information on ingredients.

## Brush Mate Fluid

### ETHYL METHYL KETOXIME

**Other adverse effects** Not available.

#### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

**Other adverse effects** This substance may contribute to ozone formation in the near surface atmosphere. However, the photochemical formation of ozone depends on a complex interaction of other atmospheric pollutant sources and environmental conditions. Therefore, the contribution of this substance to ozone formation is outside the scope of this substance assessment and is more appropriately addressed via EU air quality directives.

### CYCLOHEXANONE

**Other adverse effects** Not determined.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

<b>General information</b>	Contaminated packages must be completely emptied before sending away for laundering and re-use.
<b>Disposal methods</b>	Confirm disposal procedures with environmental engineer and local regulations. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not allow runoff to sewer, waterway or ground.
<b>Waste class</b>	Hazardous Waste EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

#### SECTION 14: Transport information

2491

##### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1993
<b>UN No. (IMDG)</b>	1993
<b>UN No. (ICAO)</b>	1993
<b>UN No. (ADN)</b>	1993

##### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%), aromatics)
<b>Proper shipping name (IMDG)</b>	FLAMMABLE LIQUID, N.O.S.
<b>Proper shipping name (ICAO)</b>	FLAMMABLE LIQUID, N.O.S.
<b>Proper shipping name (ADN)</b>	FLAMMABLE LIQUID, N.O.S.

##### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	3
<b>ADR/RID classification code</b>	F1
<b>ADR/RID label</b>	3

## Brush Mate Fluid

IMDG class	3
ICAO class/division	3
ADN class	3

### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

### 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

EU legislation	Regulation (EC) No 1272/2008 CLP. Regulation (EC) No 1907/2006 REACH.
----------------	--

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

General information	Only trained personnel should use this material. Since empty containers retain product residue, follow label warnings, even after container is emptied. For further Health and Safety information contact: Health and Safety Officer. Labels should not be removed from containers until they have been cleaned and no product remains within.
Revision comments	Additional component information.
Revision date	21/02/2019



## Brush Mate Fluid

<b>Supersedes date</b>	20/06/2017
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.