

# SAFETY DATA SHEET

## A.W.F. GRAFFITI GEL REMOVER

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Graffiti Gel Remover Water Miscible
Supplier	A.W.F. SMS Ltd
Address	Unit I D Brymau 3 Estate River Lane Saltney Chester, CH4 8RQ
Phone Number	01244 - 677833
Fax Number	01244 - 677844

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

PROPYLENE CARBONATE

CAS number	% by weight	EC number	Classification
000108-32-7	30 - 40%	203-572-1	Xi; R36

1-METHYL-2-PYRROLIDONE

CAS number	% by weight	EC number	Classification
000872-50-4	25 - 35%	212-828-1	Xi; R36/38

DIPROPYLENE GLYCOL METHYL ETHER

CAS number	% by weight	EC number	Classification
034590-94-8	15 - 25%	252-104-2	Not classified.

1-METHOXYPROPAN-2-OL

CAS number	% by weight	EC number	Classification
000107-98-2	15 - 20%	203-539-1	R10

ETHOXY (7) TRIDECANOL 85%

CAS number	% by weight	EC number	Classification
078330-21-9	5 - 10%		Xn; R22, Xi; R41

P-MENTHA 1,8(9)-DIENE

CAS number	% by weight	EC number	Classification
068647-72-3	1 - 5%	232-433-8	R10, Xn; R65, Xi; R38, R52/53

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

### 3. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi; R36/38

Human health hazards Irritating to eyes and skin.

See section 11 for more detailed information on health effects and symptoms.

#### 4. FIRST AID MEASURES

##### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

##### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

##### Skin contact

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation occurs.

##### Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

See section 11 for more detailed information on health effects and symptoms.

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing media

In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>. Do not use water jet.

Special exposure hazards No specific hazard.

##### Hazardous thermal decomposition products

In a fire, the following may be released: carbon oxides (CO, CO<sub>2</sub>)

##### Protection of fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Immediately contact emergency personnel. Use suitable protective equipment (section 8).

##### Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

##### Methods for cleaning up

If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

#### 7. HANDLING AND STORAGE

##### Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

##### Storage

Keep container tightly closed. Store in original sealed containers at temperatures between 5° and 30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
1-METHYL-2-PYRROLIDONE	EH40-WEL (United Kingdom (UK), 2005). Skin TWA: 103 mg/m <sup>3</sup> 8 hours.
DIPROPYLENE GLYCOL METHYL ETHER	EH40-WEL (United Kingdom (UK), 2005). Skin TWA: 308 mg/m <sup>3</sup> 8 hours.
1-METHOXYPROPAN-2-OL	EH40-WEL (United Kingdom (UK), 2005). Skin TWA: 375 mg/m <sup>3</sup> 8 hours.

### Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. WEL for product 240 mg/m<sup>3</sup>

### Respiratory protection

Wear appropriate respirator when ventilation is inadequate.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): Impervious gloves

### Eye protection

Safety glasses. Chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

### Skin protection

Protective clothing. Repeated or prolonged contact with irritants may cause dermatitis.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid. (Clear to slightly hazy liquid.)	Odour	Fruity.
pH	Neutral.	Boiling point	>150°C (302°F)
Flash point	The lowest known value is Closed cup: 34°C (93.2°F).		
	1) (1-METHOXYPROPAN-2-OL).		
Explosion limits	The greatest known range is Lower: 1.6% Upper: 18.8%		
	(1-METHOXYPROPAN-2-OL)		
Oxidising properties	Not available.		
Vapour pressure	The highest known value is 1.6 kPa (11.8 mm Hg) (at 20°C)		
	(1-METHOXYPROPAN-2-OL).		
Solubility	Easily soluble in cold water.		
Vapour density	The highest known value is 3.11 (Air = 1)		(1-METHOXYPROPAN-2-OL)
Evaporation rate (butyl acetate = 1)	Not available.		
Octanol/water partition coefficient	Not available.		
Auto-ignition temperature	>400°C (752°F)	Melting point	-10°C (14°F)
Flammability	FLAMMABLE		
Relative density	1.04 g/cm <sup>3</sup>		

## 10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid None identified.

Materials to avoid Strong oxidising materials acids alkalis

Hazardous decomposition products

In a fire, the following may be released: carbon oxides (CO, CO<sup>2</sup>)

## 11. TOXICOLOGICAL INFORMATION

### Potential chronic health effects

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

### Acute toxicity

Ingredient name	Test	Result	Route	Species
PROPYLENE CARBONATE	LD50	>5000 mg/kg	Oral	Rat
1-METHYL-2-PYRROLIDONE	LD50	3914 mg/kg	Oral	Rat
DIPROPYLENE GLYCOL METHYL ETHER	LD50	5130 mg/kg	Oral	Rat
	LD50	>19000 mg/kg	Dermal	Rabbit
1-METHOXYPROPAN-2-OL	LD50	>5200 mg/kg	Oral	Rat
P-MENTHA 1,8(9)-DIENE	LD50	4400 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit

### Potential acute health effects

Carcinogenicity No carcinogenic effect.

Mutagenicity No mutagenic effect.

Reproductive toxicity No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Inhalation Can cause dizziness, light-headedness, headache, nausea and blurred vision.

Ingestion No known significant effects or critical hazards.

Skin Repeated skin exposure can produce local skin destruction or dermatitis.

Additional information No components of this material are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

## 12. ECOLOGICAL INFORMATION

Ingredient name	Species	Period	Result
1-METHOXYPROPAN-2-OL	Minnows (LC50)	96 hours	20800 mg/l
	Daphnia (EC50)	48 hours	>500 mg/l
P-MENTHA 1,8(9)-DIENE	Daphnia (EC50)	48 hours	12.3 mg/l

### Persistence/degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
AWF Graffiti Gel Remover	-	-	Not readily
1-METHOXYPROPAN-2-OL	-	-	Readily

### Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility Do not allow to enter drains or watercourses.

Other adverse effects No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

#### 14. TRANSPORT INFORMATION

Additional information This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

#### 15. REGULATORY INFORMATION

EU regulations	Hazard symbol/symbols	Irritant
Risk phrases	R36/38- Irritating to eyes and skin.	
Safety phrases	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label.	
Product use Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.		
- Consumer applications.		
Other EU regulations		
EU statistical classification	3814009090	
(Tariff Code)		
National regulations		
United States		
SARA 313 toxic chemical notification and release reporting		
1-METHYL-2-PYRROLIDONE		
Germany	Hazard class for water 2	

#### 16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe  
 R10- Flammable. R22- Harmful if swallowed. R36- Irritating to eyes. R36/38- Irritating to eyes and skin. R38- Irritating to skin. R41- Risk of serious damage to eyes. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65- Harmful: may cause lung damage if swallowed.

Full text of classifications referred to in sections 2 and 3 - Europe

Xn - Harmful

Xi - Irritant

##### Further information

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC Canada - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

##### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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