



## Section 1: Identification of the Material and Supplier

### MATERIAL SAFETY DATA SHEET

**Product Name:** SMART GENERAL PURPOSE WIPES

**Other Names:** None.

**Proper shipping name (ADG Code):** None.

**Recommended use:** As a general purpose graffiti remover.  
Use as directed on the product label.

**Supplier:** Smart Distribution Services Australia,  
ACN: 079 072 227 ABN: 57 079 072 227  
Factory 2, 69 Crissane Road, HEIDELBERG WEST VIC 3081  
Tel: +61 3 9459 8990 (business hours)  
Fax: +61 3 9459 8951

**Emergency Phone Numbers:**

General Information: 0409 140 662 (Mobile)  
Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Non - Hazardous according to criteria of Work Safe Australia.

Non-dangerous goods.

**Risk Phrases:** R: 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R: 36/38 Irritating to skin and eyes.

**Safety Phrases:** S: 2 Keep out of the reach of children.  
S: 24/25 Avoid contact with skin and eyes.  
S: 46 If swallowed, seek medical advice immediately and show the container or label.

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Petroleum distillates, de-waxed	[64742-65-0]	30 - 60 % v/v
Ethylene glycol monobutyl ether	[111-76-2]	10 - 30 % v/v
Mixed surfactants		10 - 30 % v/v

## Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.

- Swallowed: If swallowed, do NOT induce vomiting.
- Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
- Eyes: If in eyes, hold eyelids apart and flush the eye continuously with water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Inhaled: Remove from exposure, rest and keep warm. Seek medical advice.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is a mixture containing a moderate proportion of ethylene glycol monobutyl ether, and a low proportion of mixed surfactants, in a hydrocarbon solution. Harmful by inhalation, in contact with skin and if swallowed. Irritant. If swallowed, vomiting should not have been induced because of risk of aspiration into the lungs. Contact Poisons Information Centre.

### Aggravated medical conditions:

Pre-existing skin disorders; compromised liver or kidney function; blood disorders.

## Section 5: Fire fighting Measures

- HAZCHEM Code: None assigned.
- Evacuate: No.
- Extinguishant: Foam or dry agent.
- Risk of violent reaction or explosion: No.
- Products of combustion: Water vapour, oxides of carbon, black smoke.
- Protective Equipment: Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Contain.  
Shut off all sources of ignition.  
Prevent spillages from entering natural waters.

### For large spills:

Contain spillage using sand or earth. Transfer liquid and solids to suitable container. Treat residues as for small spillage.

### For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes.  
Keep away from oxidising agents, caustic alkalis.

### Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children.  
Large quantities should be stored in a bonded flammables store.  
Store in original container. Keep container tightly closed and out of direct sunlight. Prevent vapours from collecting in enclosed or low lying places. Keep away from naked flames, oxidising agents, caustic alkalis. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### Incompatibles:

Oxidising agents, caustic alkalis.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

**ES-TWA:** Ethylene glycol monobutyl ether 25 ppm, 121 mg/m<sup>3</sup>

**ES-STEL:** None assigned by NOHSC, but see:  
Ethylene glycol monobutyl ether 40 ppm [Netherlands]  
75 ppm [Finland]

**ES-PEAK:** None assigned.

**Notations:** Ethylene glycol monobutyl ether Skin

*[Skin] indicates that this material may be absorbed via unbroken skin, and any such contact may invalidate the TLV.*

**Biological Limit Values:** No data found.

### Engineering Controls:

Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLV.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Do not breathe vapours or aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection  
Gloves, rubber or plastic.

#### Industrial Quantities:

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance:	Clear liquid.
Odour:	Mild odour of hydrocarbons and glycol ether.
pH:	8.4
Vapour Pressure:	No data.
Vapour Density:	Vapours will be heavier than air.
Boiling Point:	from 171 °C
Melting Point:	No data.
Volatiles:	About 30 %
Volatile Organic Compounds (VOC):	About 30 %
Evaporation Rate:	No data.
Solubilities:	Miscible with water.
Specific Gravity/Density:	0.91 g/mL @ 20 °C
Flash Point:	75 °C
Flammable Limits:	1.1 - 12.7 % [ethylene glycol monobutyl ether]
Dust Explosion:	Not applicable.
Auto-ignition Temperature:	From about 238 °C

### Other Information:

Combustible liquid. Aerosols may be more readily ignited than the liquid. May react with strong oxidising agents, caustic alkalis. Slippery when spilled.

## Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatible materials, sources of ignition.
Incompatible Materials:	Oxidising agents, caustic alkalis.
Hazardous Decomposition Products:	Oxides of carbon, black smoke.
Hazardous Reactions:	Contact with strong oxidising agents may cause fire.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

Acute:	<b>Swallowed:</b> Harmful if swallowed. Likely to cause gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhoea, headache, drowsiness. May cause systemic toxicity and acidosis. Larger doses may cause narcotic effects, difficulty breathing, lowered blood pressure and possible coma. An aspiration risk.
	<b>Skin:</b> Harmful in contact with skin. Irritating to skin. Will have a degreasing effect on the skin which may lead to further irritation. Ethylene glycol monobutyl ether may be absorbed directly through unbroken skin and can transport other ingredients with it, resulting in systemic toxic effects including nausea, headache.
	<b>Eyes:</b> Irritating to eyes. May cause redness, irritation, blurred vision and pain. May cause transient corneal damage. Prolonged contact may lead to chemical conjunctivitis and corneal injury.

**Inhaled:** Irritating to the respiratory system and mucous membranes. Aerosols, or concentrated vapours, may be harmful. May cause cough, headache, drowsiness, nausea, loss of consciousness and coma. Over-exposure may lead to anaemia, lung damage, liver and kidney damage.  
Aspiration of froth into the lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) leading to pulmonary oedema (fluid build-up in the lungs) which may become life threatening.

**Chronic:** Prolonged or repeated skin contact may lead to irritation and dermatitis.  
Chronic exposure to ethylene glycol monobutyl ether may cause blood disorders, including anaemia, and damage to the liver, kidneys and bone marrow.  
Ethylene glycol monobutyl ether has caused adverse reproductive effects in experimental animals, both male and female. (1) (2) (3) (4) (5)  
Ethylene glycol monobutyl ether is classified as carcinogenic by RTECS criteria. (6) (7)

**LD50:** Petroleum distillates > 2,000 mg/kg oral, unknown species.  
> 2,000 mg/kg skin, unknown species

Ethylene glycol monobutyl ether 470 mg/kg oral, rat.  
1,230 mg/kg oral, mouse.  
320 mg/kg oral, rabbit.

**LC50:** Ethylene glycol monobutyl ether 450 ppm/4 hours, rat.

**LDLo:** Ethylene glycol monobutyl ether 143 mg/kg oral, human.

**TDLo:** Ethylene glycol monobutyl ether 600 mg/kg oral, woman.  
7,813 µL/kg oral, woman.

## Section 12: Ecological Information

**Ecotoxicity:** May be harmful to aquatic organisms.

**Persistence and degradability:** No data.

**Mobility:** Readily transported by water.

**Environmental Fate:** No data.

**Bioaccumulative potential:** No data.

**Other adverse environmental effects:** Contains surfactants.  
Local concentrations may cause harm to aquatic organisms, including fish.

### Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

#### Disposal methods and containers:

High temperature incineration.  
Avoid disposal to natural waters or the environment.  
Avoid using plastic or rubber containers.

#### Special precautions for landfill or incineration:

May not suitable for some landfill sites.

### Section 14: Transport Information

UN Number: None assigned.

UN Proper shipping name: None.

Class and subsidiary risk: Combustible liquid.

Packaging group: None.

Special precautions for user: Treat as flammable liquid if stored or transported with other flammable liquid.  
Contain spillages.

HAZCHEM Code: None assigned.

Material for export: Not regulated.

### Section 15: Regulatory Information

Poisons (SUSDP): Schedule 6  
Ethylene glycol monoalkyl ethers > 10 %

Dangerous Goods: No. Combustible liquid.  
Treat as flammable liquid if stored or transported with other flammable liquid.

Carcinogen:	Australia	IARC	NTP	RTECS
	No.	No.	Yes.	Yes.

Agricultural and Veterinary Chemicals Act: Not applicable.

Australian Inventory of Chemical Substances (AICS): Listed.

Other National/International Regulations: No data.

### Section 16: Other Information

Date of MSDS preparation: December 2016

#### Abbreviations:

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(maximale Arbeitsplatzkonzentration)  
IARC - International Agency for Research on Cancer (France).  
NPT - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.  
HSE - Health and Safety Executive (United Kingdom).

**Literature references:**

- (1) *EHP, Environmental Health Perspectives.*  
(US Government Printing Office, Supt of Documents,  
Washington, DC 20402) v.57, p.47, 1984.
- (2) "Fiziologicheski Aktivnye Veshchestva."  
Physiologically Active Substances.  
(Izdatel'stvo Naukova Dumka, Kiev, USSR)  
v.21, p.30, 1989.
- (3) *National Technical Information Service.*  
(Springfield, VA 22161) OTS0571237
- (4) "Vrednie khimicheskoe veshchestva, galogen i kislorod  
soderzhashie organicheskie soedineniya."  
(Hazardous Substances. Galogen and oxygen containing  
substances) Bandman A.L et al., *Chimia*, p.167, 1994.
- (5) *Teratogenesis, Carcinogenesis, and Mutagenesis.*  
(Alan R. Liss, Inc., 41 E. 11th St., New York,  
NY 10003) v.7, p.29, 1987.
- (6) *National Toxicology Program Technical Report Series.*  
(Research Triangle Park, NC 27709) NTP-TR-484, 2000.
- (7) *National Technical Information Service.*  
(Springfield, VA 22161) PB#2000-105865.

**Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data  
Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the  
Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*