

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Graffiti remover

Recommended Use: For removing unwanted paint from surfaces, do not leave on painted surface for too long, if you do not want paint removed. Can use on bricks and concrete, if left on painted surface it will take paint off. Can be used to remove tar as well.

Supplier: Midland Chemicals
ABN: 91 622 018 986

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Facsimile: +61 08 9250 1710

Emergency Telephone: **1 800 033 111 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

ADG Code: dangerous goods according to the criteria of the Australian Dangerous Goods Code (ADG Code)

ASCC Hazard Classification: Hazardous according to the criteria of ASCC (NOHSC: 1008(2004))

Road and Rail: DANGEROUS GOODS.

Risk Phrases: R10 Flammable
R38 Irritating to skin
R50/53 very toxic to aquatic organisms, may cause long term adverse affects in the aquatic environment

Safety Phrases: S2 Keep out of reach of children
S24 Avoid contact with skin
S28 After contact with skin, wash immediately with plenty of soap and water
S37 Wear suitable gloves
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to environment. Refer to special instructions/material safety data sheets.

HSNO Hazard Classification: 3.1C; 6.1E; 6.3A; 6.4A; 6.5B; 9.1A; 9.2B

Poisons Schedule: NA

Packaging group number: III

MATERIAL SAFETY DATA SHEET

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
d-Limonene	68647-72-3	>95.0%	R10,R38,R43,R50,R53

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Inhalation:

Remove victim from affected area to fresh air, avoid becoming a casualty. ensure breathing can be maximised by removing any clothing that maybe obstructing mouth or throat.

Skin Contact:

If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a Doctor. If any blistering, swelling, redness or irritation occurs seek medical assistance.

Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Seek medical assistance.

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water, Never give anything by mouth to an unconscious person. If vomiting occurs give further water. Seek immediate medical assistance.

Medical attention and special treatment:

Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability conditions: product is a flammable liquid.

Hazards from combustion products:

Flammable liquid. May form Flammable vapour mixtures with air . Avoid all ignition sources. Flame proof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and flash back. Electrical requirements for work area should be assessed according to AS3000

Precautions for fire fighters and special protective equipment:

Heating can cause expansion or decomposition of material, which can lead to the containers exploding. If safe to do so, remove containers from path of fire. On burning will emit toxic fumes. Keep container cool with water spray. Fire fighters to wear self contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

In case of fire , use sand, earth, carbon dioxide, or dry chemical powder. Do NOT use a water jet. Cool heated containers with water from a safe distance.

MATERIAL SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Shut off all possible sources of ignition. Personal involved in the clean up should wear full protective clothing. Avoid accidents, clean up immediately. Clear area of all unprotected personnel. Increase ventilation. Avoid walking through spilt product as it is slippery when spilt. Stop leak if safe to do so. Do not let product reach drains or waterways. If product does enter waterways, advise local emergency services, or Environmental Protection Authority. Use clean non sparking tools to clean up.

Methods and materials for containment and clean up:

Wear protective equipment to prevent skin and eye contact. Slippery when spilt. Avoid accidents, clean up immediately.

Contain - prevent large concentration run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Do not hose spills down drains, sewers or waterways. Wash spill site with detergent and water.

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Handling Advice:

Ensure an eyebath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharge by bonding and grounding equipment. Avoid skin and eye contact and breathing in vapours. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse.

Conditions for safe storage:

Store in a cool, dry, well ventilated place, fire proof area and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks. Terpene can be stored at ambient temperature. Ensure adequate air circulation and fume extraction in storage and working area avoiding the risk of spontaneous combustion. This product has a UN Classification of 2319 and a dangerous Goods Class 3 (flammable) according to the Australian Code for transport of Dangerous Goods By Road and Rail.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Packaging must comply with requirements of Hazardous Substances (packaging) Regulations 2001.

Store in original packaging as approved by manufacturer.

NOTE: SUITABLE MATERIALS: STEEL TANKS.

MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No standard set, but if used in its concentrated form, then minimum exposure should be adhered to for Sodium Hydroxide. Safe Work Australia recommends 2mg/m³ peak limitation.

Engineering controls:

Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment:

Elbow length impervious gloves (AS2161) and safety goggles recommended should comply with Australian Standards or equivalent approved by a Commonwealth, State or Territory Authority (AS1336/1337). Respirators should comply with Australian Standard AS1716 Respiratory Protective Devices or an equivalent approved by a State or Territory authority and should be used in accordance with Australian Standard AS1715 Selection, Use and Maintenance of Respiratory Protective Devices. Clothing should be chemical-resistant coveralls, splash apron and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: clear to Yellow

Solubility: practically insol.

Specific Gravity: no data available

Relative Vapour Density (air=1): 0.012 (20°C)

Vapour Pressure (20 °C): 1.4mmHg

Flash Point (°C): 45 – 49°C Closed Cup

Flammability Limits (%): Not applicable

Auto Ignition Temperature (°C): 237°C

Boiling Point/Range (°C): 175.5-178°C

pH: no data available

10. STABILITY AND REACTIVITY

Chemical stability:

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable Liquid. (this product is not an oxygen donor.

Conditions to avoid:

Avoid heat, sparks, flames, direct sunlight, moisture, freezing, static charges, mechanical shock, high temperatures and other high energy ignition sources. Also avoid enclosed spaces.

Incompatible materials:

Incompatible with strong oxidising agents, acid clays, mineral acids, Alkyl benzene Sulphonic acid, and sources of ignition. Used as polymerisation inhibitor in tetrafluoroethylene, reacted violently with iodine pentafluoride.

Hazardous decomposition products:

When involved in a fire this product may generate carbon oxides, and smoke.
This product is not an oxygen donor.

Hazardous reactions:

Highly exothermic reaction noted when mixed 50/50 with alkyl-benzene sulphonic acid with possible boil over danger. Similar

MATERIAL SAFETY DATA SHEET

reaction noted at lower levels.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

General information: Acute Toxicity: Oral: 50-150mg/Kg (mouse): Psycholeptic effect [RIFM, TDS]; 3500MG/Kg (mouse): maximum no effect level [RIFMU, SLR] Dermal: Moderate irritation [RIFM]. Full strength to conjunctival sac (rabbit) Sub-Chronic Toxicity: Oral: 227-554-1385mg/Kg/day, 6wk (rat). Granular casts in kidneys of some male rats. Carcinogenicity: Oral: TDlo = 67g/Kg, 39wk, intermittent administration (mouse): Equivocal tumorigenic agent by RTECs criteria [RTEC]. Other: TDlo = 4800mg/Kg, 8wk, intermittent administration, intraperitoneal (mouse): tumor(s) of lung(s), thorax and or respiratory tract. 1mg/Kg/wk, 16 wk, intravenous or intraperitoneal (mouse): Anti carcinogenic activity [SLR]. Reproductive Toxicity: Oral TDlo = 3546mg/Kg, administered days 7-12 of gest-ation (pregnant mouse).

Ingestion: May be harmful if ingested. May cause gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhoea, and dizziness.

Eye contact: May cause irritation with burning, redness, and pain.

Skin contact: Irritating to skin, with temporary redness, mild local irritation and sensation. Intensive contact with skin may cause dermatitis. Sensation: Autoxidation products are skin sensitisers.

Inhalation: May be irritating to respiratory tract, sore throat, coughing, shortness of breath, dizziness, and nausea.

Long Term Effects: No information available for the product.

Toxicological Data: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Ecotoxicological information = Product is a marine Pollutant Fish: $0.1 < IC_{50} \leq 1 \text{ mg/L}$ Daphnia: $0.1 < EC_{50} \leq 1 \text{ mg/L}$ Algae: $0.1 < EC_{50} \leq 1 \text{ mg/L}$ Global warming potential: zero ozone Depletion Potential: Zero stratospheric

Persistence and degradability Photodegradability: Atmospheric Half – life = ca. 0.884 to 0.64 hours
Biodegradability : Citrus Terpene is a Biodegradable solvent occurring in nature as the main component of citrus peel oil.
: 100% 28 days.
Chemical Oxygen Demand (COD): 2850gO₂/L or 3280gO₂/Kg

13. DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

ADG Code: Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code)

Land

Road and Rail Transport

classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.

UN No: 2319

Class-Primary: 3 flammable Liquid

Packing Group: III

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S. (D-LIMONENE)

Hazchem Code: 3Y

Marine Transport

classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

Air Transport

classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification: Hazardous according to criteria of Safe work Australia; HAZARDOUS SUBSTANCE

Hazard Category: Xn: Harmful
Xi: Irritant

Risk Phrase(s): R10: Flammable.
R38: Irritating to skin.
R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.
R53: May cause long term adverse effects in the aquatic environment.

Safety Phrase(s): S2: Keep out of reach of children
S24: Avoid contact with skin
S36/37: Wear suitable protective clothing and gloves
S60: This material and its container must be disposed of as a hazardous Waste
S61: Avoid release to the environment. Refer to special instructions Safety Data Sheet

Poisons Schedule:

MATERIAL SAFETY DATA SHEET

16. OTHER INFORMATION

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Midland Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Midland Chemicals at the contact details on page 1.

Midland Chemical's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.