

SAFETY DATA SHEET (SDS)

Issue Date: May 2019

PRODUCT NAME: Road Barrier Graffiti Remover

1 IDENTIFICATION

Product Identifier: Road Barrier Graffiti Remover

Synonym: None Allocated

Proper Shipping Name: Road Barrier Graffiti Remover

Use: Graffiti Remover

Company Name: Intelligent Traffic Systems

Address: 84 Bluestone Circuit

Seventeen Mile Rocks QLD 4073

Ph: 1300 769 852

Email: info@itsau.com.au

Web: www.itsau.com.au

National POISONS Information Centre 13 11 26

2 HAZARD(S) IDENTIFICATION

GHS Classification of the substance or mixture:

Classified as Hazardous according to criteria of SafeWork Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (7th Edition)

Label Elements:

GHS Label Elements



Flammable



Warning



Health Hazard



Corrosive

Signal Word: DANGER

Physical Hazard Statement:

H225: Highly Flammable liquid & vapour

H302: Harmful if swallowed

H304: May be fatal if swallowed or enter airways

H314: Causes burns and eye damage

Precautionary Statements- General:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

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Precautionary Statements- Prevention:

- P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P260: Do not breathe dusts or mists
- P264: Wash thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P271: Use only outdoors or in a ventilated area
- P280: Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements- Response:

- P303 + P361 + P353: IF ON SKIN (or hair) – Remove all contaminated clothing immediately. Rinse skin with water/shower
- P363: Wash contaminated clothing before reuse.
- P301 + P330 + P331: IF SWALLOWED – Rinse mouth. Do not induce vomiting.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P305 + P351 + P338: IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P370 + P378: IN CASE OF FIRE - Evacuate area
- P304 + P340: IF INHALED - Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary Statements- Storage:

- P405: Store locked up
- P403 + P235: Store in a well ventilated place. Keep cool

Precautionary Statements- Disposal:

- P501: Dispose of contents/container to a licensed professional waste disposal service

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances:	Proportion	CAS Number	Classification
Ethyl Alcohol	10 – 30%	64-17-5	Flammable Liquid – Category 2
Potassium Hydroxide	1 – 10%	1310-58-3	Acute Toxicity – Category 4 Skin Corrosion – Category 1B
Hydrocarbons, C9-16, Hydro-treated Dearomated	10 – 30%	134092-62-9	Aspiration Hazard – Category 1
Benzyl Alcohol	10 – 30%	100-51-6	Acute Toxicity – Category 4
Water and Other NON-Hazards Substances	1 – 10%	Mixture	

For the full text of the H-Statements mentioned in this section, see Section 16

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4 FIRST AID MEASURES

Inhalation:

Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance, induce artificial respiration with the aid of a pocket mask equipment with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

Ingestion:

Rinse mouth thoroughly with water immediately. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek urgent medical assistance.

Skin:

For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering or irritation occurs, seek medical assistance.

Eye Contact:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury. Consult Poisons Information Centre

Other Information:

In case of poisoning, contact Poisons Information Centre
In Australia call Tel: 131126
In New Zealand Tel: 008 243 622

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

If material is involved in a fire, use water for (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder)

Unsuitable Extinguishing Media:

No data

Special hazards arising from the substance or mixture:

Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling. May be explosively reactive.

Fire incompatibility:

Avoid contamination with oxidising agents, i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. As ignition may result

Specific Hazards arising from the chemical:

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Moderate fire hazard when exposed to heat or flame. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switched and electrical equipment etc.) must be eliminated both in and near work area. Do not smoke.

Advice for firefighters:

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear. If possible to do so safely, shut off fuel to fire. Cool containers / tanks with water spray.

HAZCHEM CODE: 3W (Aust)

Further information:

Liquid & vapour are flammable.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions protective equipment and emergency procedures:

Wear protective clothing specified for normal operations
PPE advice is contained in Section 8 of the SDS

Environmental precautions:

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pre-treatment (biological treatment plant).

Methods and materials for containment and cleaning up:

SMALL SPILLS: Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools or HEPA vacuum system. Place into labelled drum(s) for later disposal.

LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

Reference to other sections:

For disposal see section 13

7 HANDLING & STORAGE

Precautions for safe handling:

Flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing – do not allow clothing wet with material to stay in contact with skin. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas
Containers, even those that have been emptied, may contain explosive vapours.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge

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(which might cause ignition of vapours). In case of fire, emergency cooling with water spray should be available. Ensure electrical continuity by earthing all equipment. Vapours may accumulate in low or confined areas.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and in a cool, well-ventilated place. Keep containers securely sealed and protected against physical damage. Store away from oxidizing agents. Store away from ignition sources and other sources of heat. Do not store near strong oxidants. Plastic containers may only be used if approved for flammable liquid. Store in approved flammable liquid storage area.

Specific end use(s)

No further data known

8 EXPOSURE CONTROLS / PERSONAL PROTECTION
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Occupational exposure limit values:

Ingredient	Reference	STEL		TWA	
		mg/m3	ppm	mg/m3	ppm
Ethyl Alcohol	SWA (Aust)	-	-	1880	1000
Potassium Hydroxide	SWA (Aust)	2 (peak)	-	-	-

BENZYL ALCOHOL

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

HYDROCARBONS, C9-16, HYDROTREATED, DEAROMATISED

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

WATER AND OTHER NON-HAZARDOUS SUBSTANCES

No Exposure details available

Other Exposure Information:

A time weighted average (TWA) has been established for Ethanol (Safe Work Australia) of 1000ppm. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate engineering controls:

Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids further information concerning ventilation requirements.

Respiratory Protection:

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Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours/gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentration use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant.

If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Eye Protection:

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. (Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336)

Hand Protection:

Recommendation: PVC or Rubber

(Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance)

Footwear:

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection:

Clean clothing or protective clothing should be worn.

(Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection against Hazardous Chemicals)

Hygiene Measures:

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9 PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Tan to brown
Odour:	Kerosene odour
Melting Point (C°):	>80°C
Boiling Point (C°):	>80°C
Solubility in Water (g/L):	Washable but not soluble
Solubility in Organic Solvents:	No Data
Specific Gravity:	0.91 - 0.92
pH:	No Data

Other Information:

Flash Point: 29°C

10 STABILITY AND REACTIVITY

Reactivity:

No Data

Chemical stability:

Stable under recommended storage conditions & normal conditions of use.

Possibility of hazardous reactions:

Should not occur

Conditions to avoid:

Avoid contact with heat, flames, ignition sources and incompatibles

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Incompatible materials:

Strong alkalis, acids, nitrates and oxidising agents.

Hazardous decomposition products:

Emits acid smoke and fumes when heated to decomposition

In the event of fire, see section 5

11 TOXICOLOGICAL INFORMATION

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

Ingestion

Harmful if swallowed.

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach with effects including: spontaneous vomiting with diarrhoea and possible bloody stools. Small quantities, approximately 20-50ml, ingested (swallowed) will cause death.

Inhalation

Harmful if inhaled.

Mists or vapours will cause severe irritation to the nose, throat and respiratory system with effects including; Dizziness, headache, coughing, loss of co-ordination, tightening of the chest, chest pains and possible pulmonary oedema.

Skin

Will cause burns to the skin, with effects including; redness, blistering, localised pain, dermatitis and deep burns.

Eye

May cause severe burns to the eyes with effects including; pain, tearing, corneal opacity and blindness. If prompt action is not taken, permanent eye damage will occur.

Carcinogenicity

No information available for this product

Mutagenicity

No information available for this product

Chronic Effects

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Prolonged or repeated exposure or deliberately concentrating and inhaling the vapours may result in lung function incapacity or death.

Additional information for chronic

According to OECD Guideline for the Testing of Chemicals (OECD 405) for eye corrosion and OECD Guideline for Testing of Chemicals (OECD 404) for skin corrosion, both test procedures have been utilised to determine that potassium hydroxide is a confirmed corrosive substance.

12 ECOLOGICAL INFORMATION

Eco-toxicity

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No Data available

Mobility:

No data available

Persistence / Degradability:

No Data available

Chemical Fate Information

No Data Available

This substance may cause long term adverse effects in the aquatic environment.

This substance may cause long term adverse effects in the environment.

13 DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your state. Dispose of material through a licensed waste contractor. Advice toxic and/or corrosive nature if applicable. Normally suitable for disposal by approved waste disposal agent.

14 TRANSPORT INFORMATION

Road Transport

UN Number: 2924

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Dangerous Goods Class: 3

Sub Risk: 8

Packing Group: III

Label: Harmful (Xn), Corrosive (C)

Air Transport

UN Number: 2924

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Dangerous Goods Class: 3

Sub Risk: 8

Packing Group: III

Label: Harmful (Xn), Corrosive (C)

Sea Transport

UN Number: 2924

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Dangerous Goods Class: 3

Sub Risk: 8

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Packing Group: III

Label: Harmful (Xn), Corrosive (C)

HAZCHEM CODE: 3W [Aust]

Classified as a CLASS 3 (FLAMMABLE LIQUID) and CLASS 8 (CORROSIVE) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 3 (Flammable Liquid) and Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1
- Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3
- Class 4.2
- Class 5
- Class 6, if the Class 3 dangerous goods are nitromethane
- Class 7

Emergency information (Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)

For LIQUIDS - Liquids flammable, Guide No: 15

15 REGULATORY INFORMATION

Poison Schedule: S6 (Aust)

This material is Schedule **S6** Poison and must be stored, handled and used according to the appropriate regulations.

Listed in the Australian Inventory of Chemical Substances (AICS).

Safety Phrases applicable to this substance:

S2 keep out of reach of children.

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S36/37 Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

Date of Preparation: May 2019

Issue date: May 2019

Reasons for Update: NOT APPLICABLE

Hazard Statements:

H225: Flammable liquid and vapour

H302: Harmful if swallowed

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H304: May be fatal if swallowed or enter airways

H314: Causes severe burns and eye damage

Literature References:

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.

Standards Australia 'AS 1940-2004-The Storage and Handling of Flammable and Combustible Liquids.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',

Standards Australia/Standards New Zealand, 2010.

Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.

Worksafe Australia, 'Hazardous Substances Information System, 2005'.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)]'.

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. ACC makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards

END OF SDS