

Product Name **SHADOW CHASER (USA)**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **SO SAFE SPECIALTY PRODUCTS PTY LTD**
Address PO Box 386, Brookvale, NSW, AUSTRALIA, 2100
Telephone +61 2 9938 1800
Fax +61 2 9905 0979
Emergency +61 2 9938 1036
Web Site <http://www.sosafe.com.au/>
Synonym(s) GRAFFITI SHADOW REMOVER
Use(s) REMOVE GRAFFITI AND GRAFFITI SHADOWS
MSDS Date 23 Jan 2009

2. HAZARDS IDENTIFICATION

Emergency Overview

RISK PHRASES

R22 Harmful if swallowed.
R35 Causes severe burns.

SAFETY PHRASES

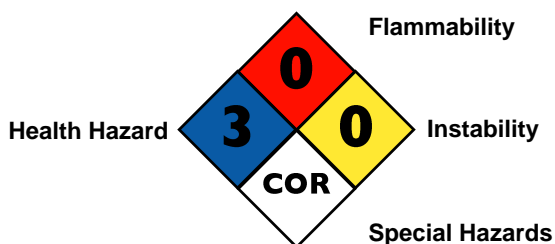
S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Refer to Toxicological Information: Section 11

HMIS

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	

NFPA



3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
POTASSIUM HYDROXIDE	1310-58-3	30-60%
NON HAZARDOUS INGREDIENTS	Not Available	<10%
SODIUM METASILICATE	10213-79-3	<10%
WATER	7732-18-5	remainder

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a physician, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk exists. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a physician.
Ingestion	For advice, contact the Poison Control Centre at 1-800-222-1222 or a physician (at once). If swallowed, do not induce vomiting.
Advice to Doctor	CORROSIVE POISONING TREATMENT: Immediate treatment preferably in a hospital is mandatory. In treating corrosive poisoning, DO NOT INDUCE VOMITING; DO NOT ATTEMPT GASTRIC LAVAGE; and DO NOT ATTEMPT TO NEUTRALISE THE CORROSIVE SUBSTANCE. Vomiting will increase the severity of damage to the oesophagus as the corrosive substance will again come in contact with it. Attempting gastric lavage may result in perforating either the oesophagus or stomach.

Immediately dilute the corrosive substance by having the patient drink milk or water. If the trachea has been damaged tracheostomy may be required. For oesophageal burns begin broad-spectrum antibiotics and corticosteroid therapy. Intravenous fluids will be required if oesophageal or gastric damage prevents ingestion of liquids. Long-range therapy will be directed toward preventing or treating oesophageal scars and strictures.

First Aid Facilities Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases when heated to decomposition. Contact with some metals (eg. aluminium) may liberate potentially flammable hydrogen gas.
Fire and Explosion	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Prevent contamination of drains or waterways.
Hazchem Code	2R

6. ACCIDENTAL RELEASE MEASURES

Spillage	Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for reuse, treatment and/or disposal.
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7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, removed from oxidising agents, acids, active metals, direct sunlight, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should be bunded and have appropriate ventilation systems.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

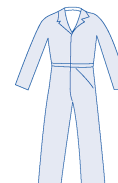
Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Potassium hydroxide	ACGIH TLV (US)	--	--	--	2

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Wear splash-proof goggles, a PVC apron, PVC or rubber gloves, rubber boots, coveralls and a faceshield. At high vapour levels, wear: an Air-line respirator.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	CLEAR COLOURLESS LIQUID	Solubility (Water)	SOLUBLE
Odour	SLIGHT ODOUR	Specific Gravity	1.5
pH	14	% Volatiles	38 % (Approximately)
Vapour Pressure	23 hPa @ 68°F	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	> 212°F	Upper Explosion Limit	NOT RELEVANT
Melting Point	< 32°F	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), metals, heat and ignition sources.
Hazardous Decomposition Products	May evolve toxic gases when heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Highly corrosive. Use safe work practices to avoid eye or skin contact and spray mist generation or inhalation. This product has the potential to cause severe skin and eye burns with possible permanent tissue damage. If diluted, the risk of adverse health effects is greatly reduced.
Eye	Highly corrosive - severe irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.
Inhalation	Corrosive. Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure may result in ulceration of the respiratory tract, lung tissue damage, chemical pneumonitis and pulmonary oedema. Effects may be delayed.
Skin	Corrosive. Contact may result in irritation, redness, itching, pain, rash, dermatitis and burns. Effects may be delayed.
Ingestion	Highly corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in ulceration, unconsciousness, convulsions and death.
Toxicity Data	POTASSIUM HYDROXIDE (1310-58-3) LD50 (Ingestion): 273 mg/kg (rat) SODIUM METASILICATE (10213-79-3) LD50 (Ingestion): 770 mg/kg (mouse - gastrointestinal ulceration) LDLo (Ingestion): 250 mg/kg (dog - lungs, gastrointestinal, kidney) TDLo (Ingestion): 15 g/kg (rat - effects on newborn)

12. ECOLOGICAL INFORMATION

Environment	WATER: Under normal use Shadow Chaser does not pose a risk to the environment. If released directly into waterways in quantity, alkaline products may change the pH of the waterway. ATMOSPHERE: Shadow Chaser absorbs CO ₂ from the atmosphere, and will neutralise within one hour under normal usage. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Disposal requirements are dependent on the hazard classification of the waste produced, as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. The disposal of this material must be conducted in compliance with the relevant parts of 40 CFR 261. Check state and local regulation for any additional requirements, as these may be more restrictive than federal laws and regulation.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION**DOT (Domestic Surface Transportation)**

DOT Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.			Subsidiary Risk(s)	None Allocated
UN No.	1719	DG Class	8		
Packing Group	II				

IATA (Air Transportation)

IATA Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.			Subsidiary Risk(s)	None Allocated
UN No.	1719	DG Class	8		
Packing Group	II				

IMO / IMDG (Ocean Transportation)

IMDG Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.			Subsidiary Risk(s)	None Allocated
UN No.	1719	DG Class	8		
Packing Group	II				

15. REGULATORY INFORMATION**US EPCRA and CAA Regulatory Information**

The following components are subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act (CAA):

Ingredient Name	CAS No	Sara 302 (TPQ)	Sara 304 (RQ)	CERCLA (RQ)	Sara 313	RCRA Code	CAA (TQ)
POTASSIUM HYDROXIDE	1310-58-3			1000			

Refer to Section 16 - Summary of Codes

Carcinogenicity

The following components are reported to be carcinogenic:

None of the components of this product are listed on the NTP/IARC/OSHA lists.

TSCA

The following components are not listed on the TSCA Inventory List:

All components are listed on the TSCA Inventory List.

16. OTHER INFORMATION

Additional Information	RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.
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ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European Inventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

SUMMARY OF CODES:

RQ - Reportable Quantity measured in pounds (304, CERCLA)

TQ - Threshold Quantity measured in pounds (CAA)

TPQ - Threshold Planning Quantity measured in pounds (302)

^ - Reporting threshold has changed since November 1998.

+ - Member of PAC category.

- Member of diisocyanate category.

X - Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.

* - RCRA carbamate waste: statutory one-pound RQ applies until RQs are adjusted.

** - This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.

*** - Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

c - Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.

s - Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.

! - Member of the dioxin and dioxin-like compounds category.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by RMT on behalf of So Safe and serves as So Safe's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by So Safe or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from So Safe.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

Prepared By

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711

Product Name **SHADOW CHASER (USA)**

Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

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End of Report