

Material Safety Data Sheet

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME: SAFE SCALE
Synonyms: None
Recommended Use: Industrial acid cleaner
Supplier: Minehan Agencies Pty Ltd
Address: 29 Camuglia Street GARBUTT Townsville Queensland Australia 4814
Telephone: (07) 4774 4626
Facsimile: (07) 4774 4616
E-mail: inquiry@minehanagencies.com.au
Emergency telephone number: 0408 777 800 (24Hrs Australia)

2. HAZARDS IDENTIFICATION

This product is classified as :

- a **hazardous Substance (IRRITANT)** according to criteria of the National Occupational Health and Safety Commission (NOHSC).
- **NOT Dangerous Goods** according to the Australian Dangerous Goods Code (ADG Code).
- **NOT classified as Schedule Poison** according to SUSDP.

Approved Criteria Classification	Xi -IRRITANT
SUSDP Classification	Not scheduled (Not a cosmetic)
ADG Classification	Not Dangerous Goods
UN Number	None allocated

EMERGENCY OVERVIEW

COLOUR	Clear straw
PHYSICAL DESCRIPTION	Non-viscous liquid
ODOUR	faint odour
MAJOR HEALTH HAZARDS	None known

PRODUCT MIXTURE INFORMATION

Local Effects Irritant: eye, skin, inhalation and ingestion.

Target Organs Eyes, mucous membranes, skin.

POTENTIAL HEALTH EFFECTS

Ingestion

short term exposure Harmful if swallowed! May cause diarrhoea, vomiting, gastro-intestinal disturbance and abdominal pain. May cause burns of gastro-intestinal tract.

long term exposure No information available.

Skin contact

short term exposure Irritating to skin - may cause severe irritation.

long term exposure Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.

Eye contact

short term exposure This product containing ingredient Glycolic acid may cause burns to the eye. Mists may cause severe eye irritation. When splashed in the eyes, concentrated solutions can cause severe burns, pain and eye damage.

long term exposure No information available.

Inhalation

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short term exposure	No vapour or mist generally associated with liquid form of the product – water based. Aerosols of this product containing ingredient Glycolic acid are irritant to the respiratory system. Breathing this material may be harmful. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract, respiratory irritation and possible harmful corrosive effects.
long term exposure	No information available.
Carcinogen Status	
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication “List of Designated Hazardous Substances” or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication “Approved Criteria for Classifying Hazardous Substances”.

Ingredients:	CAS Number:	Proportion:
Glycolic acid	79-14-1	10 – 30 % w/w
Ingredients determined to be non-hazardous	Various	< 10 % w/w
Water	7732-18-5	> 60 % w/w

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone (Australia 13 1126)

Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Perform artificial respiration if needed. Allow patient to assume most comfortable position and keep warm. Seek medical attention.

Skin Contact : Remove contaminated clothing. Wash contaminated skin for at least 15-20mins with of water, or until no evidence of the chemical remains. If swelling, redness, blistering, or irritation occurs seek medical advice. Wash clothing before re-use.

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If present, remove contact lenses. Seek medical attention.

Ingestion: Immediately rinse mouth with water. Do NOT induce vomiting. Seek urgent medical attention.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Water based. Not combustible. When involved in a fire, this product may generate hydrogen cyanide (hydrocyanic acid) and nitrogen oxides.
Extinguishing Media	Use an extinguishing media suitable for surrounding fires.
Fire Fighting	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
Flash Point	None – does not support combustion.

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	No HAZCHEM code.
Occupational Release	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Acid material – can be neutralized with lime or soda ash. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

7. HANDLING AND STORAGE

Handling	Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.
Storage	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No value has been assigned for this specific material by NOHSC.

TWA – the Time-Weighted Average airborne concentrations over an eight hour working day, for a five day week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Sk Notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Sen Notice- Sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Value: No biological limit allocated

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.

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Personal Protection Equipment

Respirator Type (AS 1716): Generally not required for typical cleaning applications with sufficient ventilation. If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Eye Protection: Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

Glove Type: Impervious PVC or rubber gloves should be worn.

Clothing: Suitable protective clothing should be worn eg: cotton overalls buttoned at neck and wrist. Work boots.

Work/Hygienic Practices: Always wash hands before smoking, eating, drinking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	clear
Odour	faint odour	Specific Gravity	1.06 @ 25 °C
Boiling Point	Approximately 100 °C.	Freezing Point	Approximately 0 °C
Vapour Pressure	Not available	Vapour Density	Not available.
Flash Point	Not flammable	Flammable Limits	None
Water Solubility	Miscible in all proportions.	pH	1.0 – 2.0 neat
Volatile Organic Compounds (VOC)	0 % v/v.	Coefficient of Water/Oil Distribution	Not available.
Viscosity	Not available.	Odour Threshold	Not available.
Evaporation Rate	Not available.	Per Cent Volatile	Ca 80% v/v

10. STABILITY AND REACTIVITY

Chemical Stability	Stable at normal temperatures and pressure.
Conditions to Avoid	Avoid excessive heat, direct sunlight, moisture, freezing, static charges and high temperatures.
Incompatible Materials	Incompatible with oxidizing agents, metals, cyanides, sulphides and sources of ignition.
Hazardous Decomposition Products	When involved in a fire, this product may generate hydrogen cyanide (hydrocyanic acid) and nitrogen oxides.
Hazardous Reactions	May be incompatible with alkaline materials.

11. TOXICOLOGICAL INFORMATION

CLASSIFICATION OF INDIVIDUAL INGREDIENTS

INDIVIDUAL INGREDIENT INFORMATION

NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical.

Ingredients	R-Phrases.
Glycolic acid	R34, 37, 20/22, 41 when > 25%

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Glycolic acid 100%

Irritation Data	Skin Irritation: Severe skin irritation. Acute dermal corrosion (rabbit) Eye Irritation: Causes burns (rabbit).
Toxicity Data	Oral LD50 Rat: 1938mg/Kg Oral LD50 Rat: 1938mg/Kg (Glycolic acid) Inhale LC50 4hr: >5.2mg/L (Female Rat) Inhale LC50 4hr: >5.2mg/L (Female Rat) (Glycolic acid).
Local Effects	Corrosive and harmful: inhalation, skin, eye, ingestion
Chronic Toxicity	No available information.
Target Organs	Skin, mucous membranes, eyes.
Acute Toxicity	Low toxicity
Reproductive Effects	No available information.
Mutagenic Data	No available information.
Carcinogenic Data	Glycolic acid is not listed by NTP, IARC, OSHA, EPA or any other authority as a carcinogen. NTP: National Toxicology Program. IARC: International Agency for Research On Cancer. OSHA: Occupational Safety and Health Administration.

12. ECOLOGICAL INFORMATION

Fish toxicity	None available.
Algae toxicity	None available.
Invertebrates toxicity	None available.
Toxicity to Bacteria	None available.
OECD Biological degradation	None available. Individual ingredients stated to be biodegradable.
General	Product miscible in all proportions with water. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority for disposal, show this MSDS for their consideration. Empty containers not to be recycled or used for any other purpose. Dispose in accordance with local regulations.

14. TRANSPORTATION INFORMATION

UN No	None allocated
Proper Shipping Name	None allocated
ADG Code	NOT Dangerous Goods
Sub Risk	None allocated
Packing Group	None allocated
Special Precautions	None allocated
Hazchem Code	None allocated
EPG	Not required
Segregations	Not required

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15. REGULATORY INFORMATION

Labelling Details

Statements to include: Xi - IRRITANT

Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system and skin.

Safety Phrases: S7 - Keep container tightly closed.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S(1/2) – Keep locked up and out of reach of children.

SUSDP: Not scheduled (not a cosmetic).

AICS: All of the constituents of this material are listed on the ACIS.

16. OTHER INFORMATION

Issue Date: Sept 2009

Reason(s) For Issue: Initial

Abbreviations & Acronyms

SUSPD: Standard for the Uniform Scheduling of Drugs and Poisons

ADG: Australian Code for the Transport of Dangerous Goods by Road and rail.

N.O.S. Not Otherwise Specified

CAS No: Chemical Abstracts Service Registry Number

UN No: United Nations Number

R-Phrases: Risk Phrases

S-Phrases: Safety Phrases

HAZCHEM Code: Hazardous Chemical emergency action code

NOHSC: National Occupational Health and Safety Commission

IARC: International Agency for Research into Cancer

ACIS: Australian Inventory of Chemical Substances

NTP: National Toxicology Program (USA)

Literary references:

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(41999)]

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition

[NOHSC:2011(2003)]

Exposure Standards for Atmospheric Contaminants in the Occupational Environment

Guidance Note [NOHSC:3008(1995)] National Exposure Standards [NOHSC:10005(1999)]

List of Designated Hazardous Substances [NOHSC:10005(1999)]

Standard for the Uniform Scheduling of Drugs and Poison No. 17

The Australian Code for the Transport of Dangerous Goods by Road and Rail EDITION 6

Disclaimer

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.

Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.