



MATERIAL SAFETY DATA SHEET

Classified as HAZARDOUS according to criteria of NOHSC

Section 1: IDENTIFICATION

DE-SALT

Recommended Use: De salting solution to assist in rust protection

Other Names: Acidic, Organic, NOS

Sierra (Aust) Pty Ltd (A.C.N. 51 101 066 022)

Postal Address: P. O. Box 563 Virginia QLD 4014

Telephone Number: (617) 3216 5099 Facsimile: (617) 3216 5199

Emergency Telephone Number: Poisons Information Centre (National) 131126

Section 2: HAZARDS

Classified as hazardous by the criteria of NOHSC.

Classified as Dangerous Goods according to Australian Dangerous Goods Code.

Prolonged contact with skin and eyes may be harmful.

Hazard symbol: Harmful (Xn)

Risk phrases: R21/22 Harmful in contact with skin and if swallowed.

Safety phrases: S24/25 Avoid contact with skin and eyes.

Section 3: COMPOSITION INFORMATION

Ingredient	CAS No	Proportion
Oxalic Acid	144-62-7	10 - <30%
Ingredients deemed not to be hazardous		to 100%

Section 4: FIRST AID

Eye (Contact)	Hold eyelids apart and flush the eye continuously with fresh water, occasionally lifting eyelids.. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor, or for at least 15 minutes. Seek medical advice.
Skin (Contact)	Remove contaminated clothing and flush skin and hair with running water and soap. If irritation persists, seek medical attention.
Inhalation(Breathing)	Remove from contaminated area immediately to fresh air. If breathing is difficult, give patient oxygen. If breathing stops, give artificial respiration. Seek medical advice.
Ingestion (Swallowing)	DO NOT induce vomiting. Rinse mouth with water, then give plenty of water to drink. Do not give anything if victim is unconscious. For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.
Advice to Doctor	Treat symptomatically. Show this M.S.D.S, to doctor.
First Aid Facilities	Ensure an eye bath and safety shower are available and ready for use.

Section 5: FIREFIGHTING MEASURE

Suitable Extinguishing Media	Use water fog, dry chemical, and alcohol foam or carbon dioxide extinguishers. Water spray may be used to cool containers.
Hazards From Combustion Products	Decomposes to form oxides of carbon and formic acid. Fumes may be highly toxic and irritating.
Precautions For Fire Fighters and Special Protective Equipment	Keep containers cool by spraying with water. Fire Fighters to wear full body protective clothing with breathing apparatus. Evacuate area and move upwind of fire.
Hazchem Code	2X

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection	Ensure an eyebath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, gloves, aprons etc. including footwear.
Spills	Neutralise small spills with soda ash and contain. Large spills should be contained with absorbent and removed to drums for disposal. Remove in accordance with local waste management authority.
Environmental Precautions:	Prevent spills from entering drains and waterways.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling	Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.
Conditions for Safe Storage	Store product in original container, and securely sealed. Store in a cool, dry, well ventilated area away from incompatible materials. Keep container tightly sealed.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

NOHSC exposure limits:	Oxalic Acid: TWA = 1.0 mg/m ³ , STEL = 2.0 mg/m ³
Engineering Controls	Use in a well ventilated area. If ventilation is insufficient use a corrosive resistant ventilation system separate from other exhaust systems. Engineering control methods to reduce hazards are preferred.
Flammability	Non flammable
Personal Protective Equipment	Ensure an eyebath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, gloves, aprons etc. including footwear.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colourless liquid	Boiling Point approximately 100°C
Odour Slight acidic odour	Freezing Point approximately 0°C
pH 0.5 – 1.5	Solubility Soluble in water.
Specific Gravity 1.03 – 1.06	Flash Point Not Applicable. > 100

Section 10: STABILITY AND REACTIVITY

Reactivity	This material reacts with alkalis and oxidizing agents to generate heat.
Conditions to avoid	Use only as directed. Store in accordance with directions given in section 7 of this document.
Incompatible materials	This material is not to be stored in aluminium containers.
Hazardous reactions	Hydrogen gas is generated when undiluted material contacts aluminium.

Section 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Swallowed	Corrosive to mouth, throat and stomach. May cause vomiting. Small doses may lead to headache, pain, muscle twitching and cramps. Larger doses may cause irregular heartbeat and a drop in blood pressure. Larger doses may lead to coma and death.
Eye	Severe irritant. Can cause redness, pain and damage to cornea.
Skin	Prolonged exposure may cause irritation. Excessive contact may produce a delayed localized pain. And discolouration of the skin with the fingernails becoming brittle and blue coloured.
Inhaled	Not normally a hazard. No harmful vapours produced.
Chronic	Long term exposure is linked to stone formation in kidneys and the urinary tract.

Section 12: ECOLOGICAL INFORMATION

Based on the available toxicological data this substance is not regulated for environmental hazards.

Section 13: DISPOSAL CONSIDERATIONS

Disposal method	Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor. Rinse empty containers thoroughly before recycling or disposing to an authorised landfill.
------------------------	---

Section 14: TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code).

UN Number	3265
UN Proper Shipping Name	Corrosive liquid, Acidic, Organic, NOS
Class and subsidiary risk	8
Packing Group	III
Special precautions for user	Store away from class 8 corrosive alkalis, and class 5 oxidising agents.
Hazchem Code	2X

Section 15: REGULATORY INFORMATION

Hazard Symbol	Xn Harmful
Risk – phrases	R21/22 Harmful in contact with skin and if swallowed.
Safety – phrases	S24/25 Avoid contact with skin and eyes.
Contains	Oxalic Acid
Poisons Schedule	S6 Poison

Section 16: OTHER INFORMATION**Poisons Information Centre****13 11 26****SierraContact
Details:**G. Macdonald
Sierra (Aust) Pty Ltd
17 Delta Street
GEEBUNG QLD 4034
Ph (07) 3216 5099**Date of preparation:** 29 September, 2004

Do not mix with other chemicals. Always use as directed. Never return unused product to original container.

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.