



A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED MARCH 2015 (VALID 5 YEARS FROM DATE OF ISSUE)

SURFACE MOUNT EPOXY RED

Section 1 – IDENTIFICATION

Chemtools Pty Ltd
Unit 2/14-16 Lee Holm Road
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Product Name: SM Epoxy Red
Product Type: Epoxy
Part Number: CT-SME
Available Sizes: 10CC Syringe
30CC Syringe
4OZ-R Jar
6OZ-R Cartridge

Section 2 – HAZARDS IDENTIFICATION

General hazard statement	Classified as hazardous according to the criteria of SafeWork Australia.
Hazard classification	Hazardous substance – Xi Irritant . Non Dangerous Goods.
Risk phrase(s)	R36/38 – Irritating to eyes and skin R43 – May cause sensitisation by skin contact
Safety phrase(s)	None.
Routes of entry	Inhalation. Ingestion.
Potential acute health effects	Eyes – This product may be hazardous in case of eye contact. Skin – This product may be hazardous in case of skin contact (irritant, sensitiser). Inhalation – This product may be hazardous in case of inhalation. Ingestion – Fumes and/or dusts produced by this product may be hazardous in case of ingestion.
Potential chronic health effects	None known.

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Chemical Name	CAS Number	Proportion % w/w
Reaction product bisphenol A; epoxy resin	bis phenol A-(epichlorhydrin), reaction product	25068-38-6	50 - 70%
Diethylene triamine reaction product		68003-28-1	10 - 30%
Treated fumed silica		67762-90-7	5 - 10%

Section 4 - FIRST AID MEASURES

Standard SUSDP First Aid Statement	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 1126 (Australia).
Description of necessary measures according to routes of exposure	
Eye contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention. Do not use an eye ointment.
Skin contact	In cases of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists, seek medical attention.
Hazardous skin contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	No known effects according to our data base.
Hazardous inhalation	No additional information.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs however is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.
Hazardous ingestion	No additional information.
Indication of medical attention and special treatment needed including description of most important symptoms, acute and delayed	
Aggravated medical conditions caused by exposure	None known.

Section 5 - FIREFIGHTING MEASURES

Suitable extinguishing media	Small fire: Use DRY chemical powder Large fire: Use water spray, fog or foam. Do not use water jet.
Hazards from combustion products	These products are carbon dioxide, carbon monoxide and halogenated compounds.
Special protective precautions	Use an approved/certified respirator or equivalent.
Special equipment for fire fighters	Not applicable.
Hazchem Code	Not applicable.

Section 6 - ACCIDENTAL RELEASE MEASURES

Emergency procedures	<u>Small spill</u> – Absorb with an inert material and put the spilled material in an appropriate waste disposal container. <u>Large spill</u> – Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system...
Methods and materials for containment and clean up	Mop or similar equipment, waste disposal container. Hose. DRY absorptive material to absorb spill and washings

Section 7 - HANDLING AND STORAGE

Precautions for safe handling	Wear suitable protective clothing. Use in a well ventilated area. When using do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Conditions for safe storage, including any incompatibilities	Keep container dry. Store at temperatures below 60°C.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards	Not available for any of the ingredients.
Biological limit values	No information.
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below the threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal protective equipment	Splash goggles, lab coat, an approved/certified vapour respirator or equivalent, impervious gloves.
Personal protection in case of a large spill	Splash goggles. Full protective suit. Vapour respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape)	Very thick pasty liquid; reddish orange.
Odour	Slight.
pH – 1% solution in water	Not applicable.
Vapour pressure	The highest known value is 0.03 mm of Hg at 20°C.
Vapour density	Not available.
Boiling point/range	Not available.
Freezing/melting point	Not available.
Solubility (specify solvent)	Negligible solubility in water; soluble in organic solvents of medium polarity
Specific gravity or density	Weighted average 1.09
Flashpoint	Not available.
Flammability	Non flammable.
Upper and lower flammable limits	Not available.
Ignition temperature	Not available.
Viscosity	Dynamic: 300 to 500 KcPs.
Ionicity (in water)	Not applicable.
Dispersion properties	Is not dispersed in cold or hot water.
Volatility	Negligible.
Water/Oil Dist. Coeff.	Not available.
Corrosivity	Non-corrosive in the presence of glass.

Section 10 - STABILITY AND REACTIVITY

Chemical stability	The product is stable at room temperature and up to 60°C.
Conditions of instability	When heated at temperatures above 60°C, quantities greater than 10 grams used at once will cause an extremely exothermic reaction (polymerisation).
Conditions to avoid	None known.

Incompatible materials	None known.
Hazardous decomposition products	Carbon dioxide, carbon monoxide and halogenated compounds.
Hazardous reactions	
Hazardous polymerisation	Above 60°C.

Section 11 – TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure

Toxicity to animals	Rat – Acute oral LD50 3060 mg/Kg (Weighted average) Rabbit – Acute dermal LD50 1075 mg/Kg
Chronic effects on humans	Carcinogenic effects: No effects known No information is available on mutagenic, teratogenic or developmental toxicity. Fumes and or dusts produced by this product may be hazardous in case of ingestion. The product is hazardous in the case of skin contact [irritant, sensitiser], of eye contact [irritant]. Non-corrosive for skin. Non-permeator by skin.
Other toxic effects on humans	None known.
Special remarks on chronic effects on humans	
Special remarks on other toxic effects on humans	
SUSDP Poison Schedule	Not listed.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence and degradability	Not available
Products of biodegradation	Not available.
Toxicity of the products of biodegradation	The products of degradation are as toxic as the product itself.
Mobility	Not available
Environmental fate	Not available
Bioaccumulative potential	Not available

Section 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers	Waste must be disposed of in accordance with the appropriate regulations.
Special precautions for landfill or incineration	None.

Section 14 - TRANSPORT INFORMATION

Dangerous Goods Classification	Not classified.
UN Number	None allocated.
UN Proper Shipping Name	None allocated.
Class and subsidiary risk	Not applicable.
Packing Group	None allocated.

Special precautions for user

Hazchem Code	None allocated.
IMDG Classification	Not controlled.
IATA Classification	Not controlled.
ADR/RID Classification	Not controlled.

Section 15 - REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation

Poisons Schedule (SUSDP) (Australia) Not listed.

ADG Code (Australia) Not a Dangerous Good

NOHSC (Australia) Hazardous – Skin and eye irritant.

Additional national and/or international regulatory information

Classifications HMIS Category 1 – Fire Hazard
NFPA Category 1 Fire Hazard, Category 2 Health, Category 1 Reactivity.

Section 16 - OTHER INFORMATION

Date of preparation or last revision of this MSDS 24 March 2015

Key/legend to abbreviations and acronyms used in the MSDS

- IATA – International Air Transport Association
- WHMIS – Workplace Hazardous Materials Information System
- HSIS – Hazardous Substances Information System
- HCS – Hazard Communication Standard
- ACGIH – American Conference of Government Industrial Hygienists
- IARC – Inter Agency Regulatory Council
- NOHSC – National Occupational Health and Safety Commission (Australia)
- SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
- STEL – Short Term Exposure Limit
- OSHA – Occupational Safety and Health Administration
- NTP – National Toxicology Program
- NFPA – National Fire Protection Association [USA]
- PEL – Permissible Exposure Limit
- TWA – Time Weighted Averages TLV - Threshold Limit Value
- NIOSH – National Institute of Occupational Health and Safety

Literature references

Sources for data

- United States MSDS for Surface Epoxy 4044 dated 14-12-2004
- Australian ADG Code
- NOHSC – List of designated hazardous substances (Australia)
- Standard for the Uniform Scheduling of Drugs and Poisons (Australia)

DISCLAIMER

The information contained within this MSDS applies only to the Chemtools product to which the sheet relates.

The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.