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Safety Data Sheet
according to
the Preparation of SDS for Hazardous Chemicals
Code of Practice February 2016 – Safe Work Australia

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifier:

Trade name: **Zinc Oxide – quick set and regular**

1.2 Recommended use of chemical and restrictions of use

Identified uses: Used as a temporary sedative cement when mixed with eugenol.

1.3 Details of the supplier for the safety data sheet

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1.4 Emergency Telephone: Poisons Information Centre (National) 13 11 26

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

SECTION 2: Hazards Identification

GHS classification(s)

Not classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia. Classified as Dangerous Goods according to the Australian code for the Transport of Dangerous Goods by Road and Rail. (7th edition).

Hazardous to the Aquatic Environment – Acute Hazard: Category 1

Hazardous to the Aquatic Environment – Long term Hazard: Category 1

Signal Word(s)

WARNING

2 continued**Hazard Statement(s)**

H410 Very toxic to aquatic life with long lasting effects.

Pictogram(s)

Environment

**Precautionary statement – Prevention**

P273 Avoid release to the environment

Precautionary statement – Response

P391 Collect spillage

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant

Other Information

Dust explosion hazard

SECTION 3: Composition/information on ingredients

Name	CAS	EINECS	Proportion
Zinc oxide	1314-13-2	215-222-5	100%

SECTION 4: First aid measures

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin Contact

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye Contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities

Advice to Doctor

Treat symptomatically.

4 continue**Other information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Firefighting measures**Suitable extinguisher equipment**

Water spray, water fog, foam or dry chemical

Unsuitable extinguishing media

Do not use water jet

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases

Specific Hazards arising from the chemical

Non combustible material. Use appropriate fire extinguisher for surrounding environment

Hazchem code

2Z

Decomposition Temperature

Not available

Precautions in connection with fire

Fire fighters should wear self-contained breathing apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

SECTION 6: Accidental release measures**Emergency procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

SECTION 7: Handling and storage**Precautions for safe handling**

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.

7 continued

Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood. It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. For information on the handling of combustible dusts and grounding procedures reference should be made to Australian Standard AS/NZS 4745.2012 – 'Code of Practice for Handling Combustible Dusts'.

SECTION 8: Exposure and controls/personal protection

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Zinc oxide	Safe work Australia	TWA	10	mg/m ³	(dust), 5mg/m ³ (fume)
Zinc oxide	Safe work Australia	STEL	10	mg/m ³	(fume)

Biological limit values

No biological limits allocated

Appropriate Engineering controls

Use with good general ventilation. If dusts are produced, local exhaust ventilation should be used. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Body protection

Suitable protective workwear, eg cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices, and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye protectors for industrial applications.

8 continued**Hand protection**

Wear gloves of impervious material such as leather and rubber. Final choice of appropriate gloves will vary according to individual circumstances ie methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves – selection, use and maintenance.

Thermal Hazards

No further relevant information available

Body Protection

Suitable protective workwear, eg cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.



Goggles



Gloves

SECTION 9: Physical and chemical properties

Form: Solid

Appearance: Powder

Colour: White

Odour: Odourless

Decomposition Temperature: Not available

Melting Point: Not available

Boiling Point: Not available

Solubility in Water: 2.9g/l (zinc)

Specific Gravity: Not available

pH: 7-8

Vapour Pressure: Not applicable

Vapour Density (Air=1) Not applicable

Evaporation Rate: Not applicable

Odour Threshold: Not available

Viscosity: Refer to section 9: Kinematic Viscosity and Dynamic Viscosity

Volatile Component: Not available

Partition Coefficient: n-octanol/water: Not available

Density: 5.68/cm³ (20°C), 300-2000kg/m³(20°C)(bulk density)

Flash Point: Not applicable

Flammability: Not flammable

Auto-Ignition Temperature: Not applicable

Explosion Limit – Upper: Not applicable

Explosion Limit – Lower: Not applicable

Explosion Properties: Not applicable

Oxidising Properties: Not available

Kinematic Viscosity: Not applicable

Dynamic Viscosity: Not applicable

Relative Density: Not available

SECTION 10: Stability and reactivity

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical stability

Stable under normal conditions of storage and handling

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible material

Strong oxidising agents, acids and bases

Hazardous decomposition products

Thermal decomposition may result in the release of toxic and/or irritating fumes

Possibility of hazardous reaction

Reacts with incompatible materials

Hazardous Polymerization

Will not occur

SECTION 11: Toxicology information

Toxicology information Toxicity data for material given below

Acute Toxicity – Oral LD50 (Rat): >5000mg/kg, Method: OECD Test Guideline 401

Acute Toxicity – Inhalation LC50 (Rat): >5.7mg/l/4h, OECD test guideline 403

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting

Inhalation Inhalation of dusts may irritate the respiratory system

Skin May be irritating to the skin. The symptoms may include redness, itching and swelling

Eye May be irritating to eyes. The symptoms may include redness, itching and tearing

Respiratory sensitisation Not expected to be a respiratory sensitiser

Skin Sensitisation Not expected to be a skin sensitiser

Germ cell mutagenicity Not considered to be a mutagenic hazard

Carcinogenicity Not considered to be a carcinogenic hazard

Reproductive toxicity Not considered to be toxic to reproduction

STOT-single exposure Not expected to cause toxicity to a specific target organ

STOT-repeated exposure Not expected to cause toxicity to a specific target organ

Aspiration hazard Not expected to be an aspiration hazard

SECTION 12: Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects

Persistence and degradability Inorganic product which cannot be eliminated from water by biological purification processes eg mechanical separation

Mobility Not available

Bioaccumulative potential Not expected to be bioaccumulative

Other adverse effects Not available

Environmental protection Prevent this material entering waterways, drains and sewers

SECTION 13: Disposal considerations

Disposal considerations Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

SECTION 14: Transport information**Transport information**

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) and

Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500kg (L); or IBC's.

UN Number: 3077

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS – (zinc oxide)

Transport hazard class(es): 9

Packing Group: III

Hazchem Code: 2Z

Special Precautions for user: Not available

IERG Number: 47

UN Number (Air Transport, ICAO): 3077

IATA/ICAO Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS – (zinc oxide)

IATA/ICAO Hazard Class: 9

IATA/ICAO Packing Group: III

14 continued**IATA/ICAO Symbol:** Miscellaneous Dangerous Goods**IMDG UN number:** 3077**IMDG Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS – (zinc oxide)
(zinc oxide) MARINE POLLUTANT**IMDG Hazard Class:** 9**IMDG Pack group:** III**IMDG Marine Pollutant:** Yes**IMDG EMS:** F-A, S-F**Transport in Bulk:** not available**SECTION 15: Regulatory information**

Regulatory information: Not classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule: Not scheduled.**SECTION 16: Other information****Date of preparation or last revision of SDS:****SDS Created:** 14 December 2016**References:***Preparation of Safety Data sheets for Hazardous Chemicals Code of Practice.**Standard for the Uniform Scheduling of Medicines and Poisons.**Australian Code for the Transport of Dangerous Goods by Road & Rail.**Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.**Workplace exposure standards for airborne contaminants.**Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH)**Globally Harmonised System of classification and labelling of chemicals.*

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