Safety Data Sheet



Identification of Substance & Company

Product

Product name Zeolite - granular

Product code NA
UN number NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses Raw material

Company Details Company name Australian Address

Telephone

Email

Emergency number

2. Hazard Identification

Hazard classification for Australia (GHS)

This product has been assessed according to GHS and is classified as follows:

GHS Classes Hazard Statements

Skin irritation Cat 2 H315 - Causes skin irritation. Eye irritation Cat 2B H320 - Causes eye irritation.

SYMBOLS

WARNING



Other Classifications

Zeolite contains crystalline silica. The following classification ONLY applies to this substance if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting.:

Carcinogenicity, Cat 1A H350 May cause cancer through inhalation of dust.

Specific Target Organ Toxicity, Cat 1H372 Causes damage to lungs and respiratory system through prolonged or

repeated exposure by inhalation of dusts.

Precautionary Statements

Prevention

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing.

P280 - Wear eye/face protection.

Response

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P332+P313 - If skin irritation occurs: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before re-use.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Composition / Information on Ingredients

Component	CAS/ Identification	Conc (w/w %)
Zeolite – crystalline aluminosilicates may contains oxides including silica and aluminium oxide:	1318-02-1	100
Silica component may include		
Cristobalite	14464-46-1	<10
Quartz (crystalline silica)	14808-60-7	<10

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 (24 hr, 7 days a week emergency service).

Recommended first aid

facilities

Ready access to running water is recommended.

Exposure

Swallowed

Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention. Take off contaminated clothing and wash before re-use.

Inhaled If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh

air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

substances:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

Unsuitable extinguishing

substances:

Disposal

Unknown.

Products of combustion: Product does not burn. Dust may form irritating atmosphere.

alcohol resistant foam.

Protective equipment: No special measures are required.

Hazchem code: NA

Accidental Release Measures

In the event of large spillage (e.g. >100kg) alert the fire brigade to location and give brief **Emergency procedures**

description of hazard. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Sweep up the solid. Avoid creating dust. If appropriate, use a gentle water spray to wet material to minimise dust generation. Sweep up and collect recoverable material into labelled containers for recycling or

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salvage. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

dusts. Work up wind or increase ventilation.

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7. Storage & Handling

Storage Stable under normal use and storage conditions.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Do not breathe

dust.

8. Exposure Controls / Personal Protective Equipment

Exposure Standards

A work exposure standard (ES) has not been established by SafeWork Australia for this product.

Australian Ingredient **WES-TWA* WES-STEL Exposure Stds** Aluminium oxide 10mg/m³ data unavailable 5mg/m³ (as Fe) Iron (II) Oxide data unavailable 10mg/m³ (fume) Magnesium oxide data unavailable Calcium oxide 2mg/m³ data unavailable Titanium dioxide 10mg/m³ data unavailable quartz (respirable dust) $0.05 mg/m^{3}$ data unavailable cristobalite (respirable dust) 0.05mg/m³ data unavailable

Engineering Controls

In industrial situations, concentration values below the ES value must be maintained. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe airborne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if dust is likely.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Replace frequently. Gloves should be checked for tears or holes before use.

gloves. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating,

drinking or smoking. Wash contaminated clothing before re-use.

RespiratoryTo prevent irritation a well fitted dust mask should be used (this is not recommended)

when exposure is close to the ES). Use of a P2 dust mask or fine particulate half or full face respirator with an effective seal is recommended when airborne concentrations approach the ES (section 8). Fit testing and clear guidelines and training for use and

maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance solid, granular, off white/tan colour

Odour no odour

pH 8.65 (10% aqueous suspension)

Vapour pressure NA
Viscosity NA
Boiling point NA
Volatile materials no data
Freezing / melting point NA

Solubility not soluble in water

Specific gravity / density ~0.65g/cm³
Flash point no data

Danger of explosion NA
Auto-ignition temperature NA
Upper & lower flammable limits NA

Corrosiveness non corrosive

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10. Stability & Reactivity

Stability

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Avoid the creation of

Avoid contact with strong oxidsing agents and hydrogen fluoride.

dust.

Incompatible groups

Hazardous decomposition

products

None known

Hazardous reactions Zeolites will react with hydrogen fluoride (HF) acid. Avoid contact with strong oxidsing

agents.

11. Toxicological Information

Summary

IF IN EYES: Fine dust may cause irritation when in direct contact.

IF ON SKIN: Material may cause drying out of skin.

IF INHALED: May cause respiratory irritation. Also see chronic effects.

IF SWALLOWED: No adverse effects anticipated under normal use conditions.

CHRONIC EFFECTS: The adverse health effects from respirable crystalline silica exposure-silicosis, cancer, scleroderma, tuberculosis, and nephrotoxicity- are chronic effects. This product is granular, but may become a respirable dust through sanding/grinding.

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Acute Oral Not considered acutely toxic if swallowed.

> Dermal Not considered acutely toxic by dermal contact.

The substance is not considered acutely toxic if inhaled, however there may be irritation Inhaled

of the respiratory tract if dust is inhaled. Short term (acute) silicosis (see "systemic" below) can also occur with one-off exposures to extremely high levels of fine crystalline silica dust. Other short term effects include irritation, choking and difficulty breathing. The mixture is not considered to be an eye irritant. Dust may be an eye irritant

Eye (mechanical irritation).

The mixture is considered to be a mild skin irritant. Skin

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

> Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity

Zeolites have been classed by IARC as group 3 - cannot be evaluated as to their carcinogenicity to humans. However, there is evidence that this material does contain quartz and cristobalite. Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1). Crystalline Silica triggers 6.7A classification (confirmed carcinogen). The carcinogenicity of silica is related to long term (e.g., 10 years) inhalation of very fine particulate (e.g., from sand blasting or dry cutting of quartz containing substrates). Carcinogenicity of silica appears linked to development of silicosis (see systematic below) followed by complications and,

eventually lung cancer

Reproductive / Developmental **Systemic**

No ingredient present at concentrations > 0.1% is considered a reproductive or

developmental toxicant or have any effects on or via lactation.

The respirable fraction of the dust of this product is considered to be a target organ toxicant, because of the presence of crystalline silica at greater than 1%. Crystalline silica triggers 6.9A classification if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting. This is due to the development of silicosis which can occur following exposure to extremely high levels of fine silica dust. Silicosis is a type of pneumoconiosis – a disease of the lung that causes inflammation, scar tissue, lesions and fibrosis in the lung (alveolar). Symptoms include shortness of breath, cough, fever, loss of appetite and cyanosis (bluish skin). Silicosis can occur following prolonged exposure (e.g., 10 years) to relatively high levels of fine crystalline silica dust.

Based on limited animal research, it is possible that repeated inhalation of cellulose fibre

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dust may lead to inflammation and scarring of the lung.

Aggravation of existing conditions None known

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12. Ecological Data

Summary

This product is not considered ecotoxic.

Supporting Data

Aquatic Not ecotoxic in the aquatic environment.

Bioaccumulation No data
Degradability No data

Soil No consided ecotoxic in the soil environment.

Terrestrial vertebrate Not toxic towards terrestrial vertebrates

Terrestrial invertebrate Not toxic towards terrestrial invertebrates

Biocidal Not biocidal

Environmental effect levels No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There are no product-specific restrictions. However, state and local disposal regulations

may apply. Note that state and local disposal regulations may differ from federal disposal

regulations.

Disposal methodDisposal of this product must comply with the requirements of state and local disposal

regulations. The substance must be handled as hazardous waste and disposed of in an

approved facility.

Contaminated packaging Dispose of empty containers safely. Do not re-use containers for any other purpose.

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:Not applicable.Hazchem code:NA

15. Regulatory Information

Standard for the Uniform Not scheduled

Scheduling of Drugs and Poisons

(SUSDP)

Applicable prohibitions and Not listed

notifications/licensing

requirements

Agricultural and Veterinary Not listed

Chemicals Act

Listing in the Australian Inventory
of Chemical Substances (AICS)QuartzIMAP - Tier II - Human HealthCristobalite
ZeoliteIMAP - Tier II - Human Health

Additional information Not applicable
GHS Hazardous Chemical Not listed

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Other Information 16.

Abbreviations

AICS Australian Inventory of Chemical Substances **CAS Number** Unique Chemical Abstracts Service Registry Number

Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test EC₅₀

population (e.g. daphnia, fish species)

Exposure Standard - The airborne concentration of a biological or chemical agent to ES

which a worker may be exposed in a work day.

Database on Hazardous substances, Information system on hazardous substances of the **GESTIS**

German Social Accident Insurance.

GHS Globally Harmonised System of Classification and Labelling of Chemicals

Emergency action code of numbers and letters that provide information to emergency **HAZCHEM Code**

services, especially fire fighters

HSIS Hazardous substance Information System, http://hsis.safeworkaustralia.gov.au/

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

LD50 Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population LC₅₀

(usually rats)

NICNAS National Industrial Chemicals Notification and Assessment Scheme

New Zealand Environmental Protection Agency. Chemical Classification Information **NZ EPA CCID**

Peak Exposure Value: The maximum airborne concentration of a biological or chemical **Peak Limitation**

agent to which a worker may be exposed at any time.

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Short Term Exposure Limit - The maximum airborne concentration of a chemical or **STEL**

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT Specific Target Organ Toxicity

Time Weighted Average – generally referred to ES averaged over typical work day **TWA**

(usually 8 hours) HEL **Upper Explosive Limit UN Number** United Nations Number

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID) or Hazardous Substances Information System (HSIS) for the specific

chemical.

Other References: Ingredients SDS's

Review

Data

Reason for review **Date** July 2019 New SDS for Australia

September 2020 Update of WES, update of logo.

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

