

## **Product Name: ZeoFresh and EcoFresh ranges of products**

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### **SECTION 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY**

Substance: Crystalline hydrous alumino-silicate of alkali and alkali earth metals.

Trade Name: ZeoFresh, ZeoMed and EcoFresh ranges of products

Other names: ZeoFresh Infectious Waste Body Fluid Clean-Up Absorbent Powder / EcoFresh products/ ZeoFresh Products.

Product Use: Selectively removes ingredients from mixtures on basis of molecular size.

Creation Date: June, 2004

Revision Date: February, 2019

### **SECTION 2 - HAZARDS IDENTIFICATION**

Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous - No criteria found.

Safety Phrases: Not Hazardous - No criteria found.

SUSDP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: White solid in pellet, granule, bead or extrusion form.

Odour: No odour.

Major Health Hazards: no significant risk factors have been found for this product.

Potential Health Effects

Inhalation

Short term exposure: Significant inhalation exposure is considered to be unlikely. Long term inhalation of high

amounts of any nuisance dust may overload lung clearance mechanism. Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient

discomfort.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: Exposure via eyes is considered to be unlikely. This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. This product is unlikely to cause any irritation problems in the short or long term.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

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IARC: Zeolites is Class 3 - unclassifiable as to carcinogenicity to humans.

### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients CAS No Conc,% TWA (mg/m<sup>3</sup>

) STEL (mg/m<sup>3</sup>

)

Zeolites † 1318-02-1 pure \* not set not set

\* Commercially pure.

† Zeolites are of variable chemistry and may contain silica, alumina, sodium oxide (soda), potassium oxide (potash), calcium oxide, lithium oxide, magnesium oxide, and copper oxide either combined or mixed into the product matrix.

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5

day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should

not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is

used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

#### **SECTION 4 - FIRST AID MEASURES**

General Information:

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 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all

times. Have this MSDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: No specific health data is available for this product. If any unusual symptoms become evident, or if in doubt, wash skin with water and contact a Poisons Information Centre or a doctor.

Eye Contact: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more

than a few minutes.

Ingestion: First aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is

involved in a fire.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. If there is a significant chance that dusts are likely to build up in

cleanup area, we recommend that you use a suitable Dust Mask.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant

quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill.

Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## **SECTION 7 - HANDLING AND STORAGE**

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed.

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The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

## **SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

Exposure Limits TWA (mg/m<sup>3</sup>

) STEL (mg/m<sup>3</sup>

)

Exposure limits have not been established by NOHSC for this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you

wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

Physical Description & colour: White solid in pellet, granule, bead or extrusion form.

Odour: No odour.

Boiling Point: Not applicable.

Freezing/Melting Point: Decomposes before melting.

Volatiles: No specific data. Expected to be low at 100°C as supplied. However, may absorb water and other small molecules from air

Vapour Pressure: Negligible at normal ambient temperatures.

Vapour Density: No data.

Specific Gravity: 2.2 to 2.4. Bulk density 0.85 to 0.99

Water Solubility: Insoluble.

pH: No data.

Volatility: Negligible at normal ambient temperatures.

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water distribution: No data

Autoignition temp: Not applicable - does not burn.

## **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Containers should be kept dry.

Incompatibilities: No particular Incompatibilities.

Fire Decomposition: Does not burn. In a fire any absorbed ingredients may be liberated and may burn.

Polymerisation: This product is unlikely to undergo polymerisation processes.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

This variable chemistry product may contain 0.7 to 1.0% free silica. Long term (over months or years) inhalation of crystalline silica dusts in the gas exchange region of the lung, causes increase of fibrotic (scar) tissue. With dusts of this kind, only the very fine particles which are capable of penetrating to this region of the lung are of concern in determining hazards to health. The ZeoFresh products have been ground and sieved in order to minimise the likelihood of containing such fine particles.

When inhaled, crystalline silica has been classed as a Group 1 human carcinogen by IARC, a unit of the World Health

Organisation. However, it is not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric

Contaminants in the Occupational Environment" (May 1995), although its status is under review (2000).

## **SECTION 12 - ECOLOGICAL INFORMATION**

This product does not degrade naturally. It will not cause ecological problems because it does not enter biological systems.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal: Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Note

that product properties may have been changed in use, significantly altering its suitability for landfill. Please do NOT

dispose into sewers or waterways.

## **SECTION 14 - TRANSPORT INFORMATION**

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

## **SECTION 15 - REGULATORY INFORMATION**

AICS: This product was found in the public AICS Database.

## **SECTION 16 - OTHER INFORMATION**

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances

CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

UN Number United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND

HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF

HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE,

THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT

TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the



Preparation of Material Safety Data Sheets” 2nd Edition [NOHSC:2011(2003)]

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