



Issued: 24/09/20
Reference: SDS1225au_MSD5_09/20

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SAFETY DATA SHEET

According to Safe Work Australia

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name:	Molecular Sieve
Product Code:	15-MSD5/WS
Supplier:	NFK Glazing & Industrial Supplies Ltd
Address:	28 Devlan Street, Mansfield, QLD 4122
Contact phone:	+61 7 3343 3377
Emergency phone:	1800 033 111

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC)No 1272/2008:

Physical Hazards :

Not classified

Health Hazards:

Carcinogenicity	(Category 1)
Specific target organ toxicity - single exposure	(Category 1) (Respiratory system)
Specific target organ toxicity- single exposure	(Category 3) (Respiratory irritation) Specific target
organ toxicity - repeated exposure	(Category 1) (Respiratory system, kidney)

Environment al Hazards :

No data available.

The hazards not mentioned are not applicable or no data available.

Classification according to Directive 1999/ 45/EC:

R45 - Xi R37 - T R39/23 - T R48/ 23

Label elements:

EC No 1272/ 2008:

Hazard pictogram:



Signal Word:

Danger

Hazard Statements:

May cause cancer.

Causes damage to organs: respiratory system.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: respiratory system, kidney.

Precautionary Statements:

Wash thoroughly after handling.

Wear protective gloves/eye protection/ face protection.


IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse.

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

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

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Directive 1999/45/EC:**Danger symbol:****Risk phrases:**

R45 May cause cancer.

R37 Irritating to the respiratory system.

R39/ 23 Toxic: danger of very serious irreversible effects through inhalation.

R48/ 23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases:

S1/ 2 Keep locked up and out of the reach of children.

S22 Do not breathe dust.

S36/ 37/ 39 Wear suitable protective clothing, gloves and eye/ face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S53 Avoid exposure - obtain special instruction before use.

Other Hazards:

No data available.

3. INFORMATION ON INGREDIENTS

Product name: Molecular Sieve

Ingredient	Concentration	CAS No.	EI
Zeolite	>70%	1318-02-1	215-283-8
Clay	<30%	14808-60-7	238-878-4

4. FIRST-AID MEASURES

Skin Exposure:

In case of skin contact, flush with copious amounts of water. Remove contaminated clothing and shoes.

If irritation persists, Call a physician.

Eye Exposure:


In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

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Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

No data available.

Indication of any immediate medical attention and special treatment needed:

No data available.

5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical, Water spray, Carbon dioxide or appropriate foam .

Special hazards arising from the substance or mixture:

Take care as it may decompose upon combustion or in high temperatures to generate Silicon oxides, Aluminium oxides.

Advice for firefighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Precautions for safe handling:


Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid formation of dust. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Strong oxidizing agents. Wash hands and face thoroughly after handling. No smoking at working site.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Strong oxidizing agents.

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8. EXPOSURE CONTROL/PPE

Control parameters:

Quartz: ACGIH (2006) TLV- TWA 0.025mg/m3 A2

Appropriate engineering controls:

Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory: Wear government approved respirator.

Eye: Wear chemical safety glasses.

Clothing: Wear appropriate protective clothing.

Hand: Wear compatible protective gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance: Brown ball granule

Odor: Weak odor

Melting Point/°C: >350°C

pH Value: 10.2 (25 °C, 50.0g/L)

Solubility: Slightly soluble in water

10. STABILITY AND REACTIVITY

Reactivity:

No data available.

Chemical stability:

Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

No data available.

Conditions to avoid:

Avoid moisture.

Materials to Avoid:

Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Strong oxidizing agents.

Hazardous Decomposition Products:

Silicon oxides, Aluminum oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:


No data available.

Skin corrosion/irritation:

No data available.

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Serious eye damage/irritation:

No data available.

Respiratory or skin sensitization:

No data available.

Conditions to avoid:

Avoid moisture.

Materials to Avoid:

Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Strong oxidizing agents.

Hazardous Decomposition Products:

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No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

Respiratory or skin sensitization:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

IARC: 1 - Group 1: Carcinogenic to humans (Silica dust, crystalline, in the form of quartz or cristobalite)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites))

Reproductive toxicity:

No data available.

Specific target organ toxicity - single exposure:

Causes damage to organs: respiratory system.

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure:

Causes damage to organs through prolonged or repeated exposure: respiratory system, kidney.

Aspiration hazard:

No data available.

12. ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

No data available.

Other adverse effects:

No data available.

13. DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport: Non-hazardous for air transport.

DIO: Non-Hazardous for Sea Transport: Non-hazardous for sea transport.

Transport in bulk Not applicable.
according to

**Annex II of IIARPOL
73/78 and the IBC**

Code:

Environmental hazards:


No data available.

Special precautions for user:

No data available.

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15. REGULATORY INFORMATION

Classification and labelling according to Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture:

No data available.

Chemical Safety Assessment:

No data available.

16. OTHER INFORMATION

Date: 2020-09-24
Department: Shanghai Research Institute of Chemical Industry Testing Centre
Tel (Fax) : 8621-52815377/52800971/52807275/52811034/52569800
Revision: 0
Reference Standard: (EU) No 453/2010

Other Information:

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