

大 连 星 镁 矿 业 有 限 公 司

STAR GRACE MINING CO., LTD.

Add: 29-67, No. 929, Xinan Road, Shahekou District, Dalian, Liaoning, China

MATERIAL SAFETY DATA SHEET

Magnesium Sulphate Granular(kieserite)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING

Chemical Name : Kieserite
Synonyms : Magnesium Sulphate Monohydrate
Chemical Formula : $\text{MgSO}_4 \cdot \text{H}_2\text{O}$
Creation Date : NOV.08,2020
Expiry Date : NOV.07,2022
Supplier : Star Grace Ming Co., Ltd
Telephone Number : 86-411-84507556
Fax Number : 86-411-84507031
Emergency Phone Number : 86-411-39034985

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	MgSO ₄ %	EC-No	CAS NO.	Symbol(s)	R-pharse(s)
Kieserite	86-87	N/A	14168-73-1	N/A	N/A

3. HAZARDS IDENTIFICATION

Physical/Chemical hazards Low.
Environmental hazards Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Human health hazards Low.

4. FIRST AID MEASURES

Effects and symptoms

Ingestion Acts as a laxative. Ingestion of sufficient quantities may lead to heart changes, flaccid paralysis and cyanosis.
Inhalation Not applicable.
Skin contact No significant effects.
Eye contact Mild eye irritation may result.

First aid measures

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Ingestion	Rinse mouth with plenty of water. Drink plenty of water. Consult a physician if necessary.
Inhalation	Not applicable.
Skin contact	Wash off immediately with soap and plenty of water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.

5. FIRE-FIGHTING MEASURES

Flammability	Non-Flammable.
Suitable extinguishing media	
Suitable	Water, dry powder, foam, carbon dioxide (CO ₂).
Not suitable	
Hazardous decomposition products	Heating to dryness will produce obnoxious and toxic fumes.
Special protective equipment	Wear self-contained breathing apparatus and protective suit for firefighters

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Rubber or plastic gloves.
Environmental precautions required.	No special environmental precautions
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal. Rinse affected area with plenty of water.

7. HANDLING AND STORAGE

Storage / Handling	No special storage conditions required.
Packaging Material	Suitable woven bags.
Not Suitable	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>National Occupational Exposure limits</u>	Not applicable.
Chemical Name	

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OEL (United Kingdom)

Recommended monitoring procedures

Personal protection equipment

Respiratory protection

Skin and body protection

Hand protection

Eye protection

Lightweight protective clothing.

Rubber or plastic gloves.

Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

solid.

Colour

Light yellow or gray granular

Odour

No odour

Molecular weight

120.37

Boiling Point / range

Melting point / range

Freezing point

Decomposition temperature

Bulk Density

0.9

PH

5-8

Solubility

Completely miscible.

10. STABILITY AND REACTIVITY

Stability

Stable.

Hazardous decomposition products (dryness).

Oxides of Sulphur (if heated to

11. TOXICOLOGICAL INFORMATION

Main Constituent(s)

kieserite

Acute toxicity

Oral

Human, Oral TDLo : 428 mg/kg. Leads to muscle weakness. Acts as a laxative. Oral, Mouse LDLo : 5g/kg.

Inhalation

Skin irritation

Low.

Eye irritation

Mild eye irritation.

Mutagenicity

Mutation data reported for the anhydrous salt. No information available for the solution.

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12. ECOLOGICAL INFORMATION

Persistence and degradability

Not Biodegradable.

Ecotoxicity effects

No information available. Ecotoxicity

believed to be low.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

In accordance with local and national regulations.

14. TRANSPORT INFORMATION

UN-No

Not applicable.

IMDG/ADR Class

Not classified as dangerous in the meaning of transport regulations.

UN Packing group

15. REGULATORY INFORMATION

EC Regulations

EC Classification

Not applicable.

(67/548/EEC-88/379/EEC- 92/32/EEC)

Label name

kieserite

R-phrases(s)

S-phrases(s)

Symbols

16. OTHER INFORMATION

History

Date of issue 10/2/2012

Previous Revision 1

Revision Number 2

Date Previous SDS 8/04/2010

SDS prepared by RZ

SDS revised by RZ

* Denotes changes from last revision

The above information is based on current knowledge at the time of publication and is given in good faith. Star grace chemical ltd implies no warranty as to the suitability of the product for any particular purpose. Purchasers should make their own tests to determine the suitability of this product for a particular purpose. Reference should be made to a Product Data Sheet regarding the quality or specification of the product.

The information contained in this data sheet does not constitute an assessment of workplace risks.

This safety data sheet complies with directive 91/155/EEC as amended by

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93/112/EEC and 96/54/EC.

