MATERIAL SAFETY DATA SHEET

(CALCIUM CHLORIDE)

Section 1-Identification of substance

Product Name:CALCIUM CHLORIDE, ANHYDROUS 94 MIN

Manufacturer/Supplier:

SHANDONG GUOWEI CHEMICAL INDUSTRY CO.,LTD

BINHAI ECONOMIC DEVELOPMENT ZONE,WEIFANG, SHANDONG,CHINA

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Section 2-Composition/Data on components

Chemical characterization:

Calcium chloride ; 94MIN ($CaCl_2$:94%,NaCl: 3%,$MgCl_2$:0.3%,$Ca(OH)_2$:0.15%,H_2O: 2.55%)

CAS Number:10043-52-4

EINECS Number:233-140-8

Section 3-Hazards identification

Signal Word: WARNING

Hazard designation:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary Statements:

P261: Avoid breathing dust.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/eye protection.

P305+P351+P338: IF IN EYES: Rinse continuously with water for at least 15 minutes.

Section 4-First aid measures

Inhalation: Remove to fresh air. If breathing is difficult, provide artificial respiration. Keep warm. Seek immediate medical advice if symptoms persist.

Skin contact: Rinse skin thoroughly with soap and water. Seek immediate medical advice.

Eye contact: Rinse eyes continuously with plenty of water for at least 15 minutes. Seek immediate medical advice.

Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5-Fire fighting measures

Suitable extinguishing agents Use fire fighting measures that suit the environment.

Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

Section 6-Accidental release measures

Person-related safety precautions: Wear protective equipment.Keep unprotected persons away.
Ensure adequate ventilation
Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting: Collect mechanically.
Additional information: See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Section 7-Handling and storage

Handling
Information for safe handling: Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Information about protection against explosions and fires: No special measures required.
Storage
Requirements to be met by storerooms and containers: No special requirements.
Information about storage in one common
Storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

Section 8-Exposure controls and personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require monitoring at the workplace: Not required.
Additional information: No data
Personal protective equipment
General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs,beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Breathing equipment:Use breathing protection with high concentrations.
Eye protection: Safety glasses
Face protection
Body protection: Protective work clothing.

Section 9-Physical and chemical properties

General information

Form: Granular
Colour: White to off-white
Smell: Odourless
Change in condition
Melting point/Melting range:782℃
Boiling point / Boiling range: 1600℃
Sublimation temperature/start: Not determined
Flash point: Not applicable
Ignition temperature: Not determined
Decomposition temperature: Not determined
Danger of explosion: Product is not explosive.
Critical values for explosion:
Lower: Not determined
Upper: Not determined
Steam pressure: Not determined
Density at 20℃ 2.15g/㎝³
Solubility in/Miscibility with
Water at 20℃:745 g/l

Section 10-Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
Materials to be avoided: Alkali metals
Dangerous reactions: Reacts with various metals
Dangerous products of decomposition: Hydrogen chloride (Hcl)

Section 11-Toxicological information

Acute toxicity:
LD/LC50 values that are relevant for classification:
Oral LD50 1940 mg/kg (mus)
1000 mg/kg (rat)
Primary irritant effect:
On the skin: Irritant for skin and mucous membranes.
On the eye: Irritant effect.
Sensitization: No sensitizing effect known.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this product.
No classification data on carcinogenic properties of this material is available from the EPA,IARC,NTP,OSHA or ACGIH.

Section 12-Ecological information

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Section 13-Disposal considerations

Product:

Recommendation Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water,if necessary with cleaning agent.

Section 14-Transport information

Land transport ADR/RID and GGVS/GGVE(cross-border/domestic)

ADR/RID-GGVS/E Class:None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:None.

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information:

Not dangerous according to the above specifications.

Section 15-Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of product:

China GHS Classification: Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3

National Regulations: Comply with relevant Chinese laws and regulations.

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

For use only by technically qualified individuals.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Section 16-Other information

Employers should use this information only as a supplement to other information gathered by them,and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.