

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Magnesium Carbonate TT
NAME OF THE SUPPLIER : Naikai Salt Industries Co., Ltd.
ADDRESS : 2721 Muneage, Tamano-shi, Okayama, 706-0305, Japan
SUPPLIER : DaeMyung chemical Corporation
ADDRESS : 187, Cheongwonsandan 3-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do,
Korea
NUMBER : +82-462-3857

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE

Eye Damage/Irritation : Category 2B
Specific Target Organ Toxicity(Single Exposure) : Category 3 (Respiratory tract irritation)

GHS LEVEL ELEMENTS

Hazard Symbol :



Signal Word : Warning
Hazard Statements : Causes eye irritation
May cause respiratory irritation

PRECAUTIONARY STATEMENTS

Prevention : Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
: Avoid breathing dust.

Response : IF IN EYES : Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention
Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED : Remove victim to fresh air and keep at rest
in a position comfortable for breathing.

Storage : Store locked up.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/PREPARATION : Substance
COMMON CHEMICAL NAME : Magnesium Carbonate Hydroxide
SYNONYMS : Magnesium Carbonate Basic
CAS NUMBER : 546-93-0, 1309-42-8, 39409-82-0
INGREDIENTS CONTRIBUTING TO THE HAZARDS
Chemical Formula : $4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$
Concentration : 40.0-43.0 % (MgO measured)
Other Contaminants : Some Impurities

4. FIRST-AID MEASURES INFORMATION

- Inhalation : Remove from exposure area to fresh air immediately.
Perform artificial respiration if necessary.
Get medical attention if necessary.
- Skin Contact : Remove contaminated clothing and shoes immediately.
Wash with soap or mild detergent and large amount of water
until no evidence of chemical remains (at least 15-20 minutes).
Get medical attention immediately.
- Eye Contact : Wash eyes immediately with large amount of water, occasionally
lifting upper and lower lids, until no evidence of chemical remains
(at least 15-20 minutes).
Get medical attention immediately.
- Ingestion : Rinse mouth with water.
Get medical attention if needed.
- Protection of first-aiders : Wear gloves, air-tight safety and dust respirator.

5. FIRE-FIGHTING MEASURES FIRE AND EXPLOSION HAZARD

: Negligible fire hazard when exposed to heat or flame.

EXTINGUISHING MEDIA

- Suitable : Use extinguishing agents appropriate for surrounding fire.
- Large Fires : No acute hazard. Move container from fire area if possible.
Avoid breathing vapors or dusts.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Evacuate unnecessary personnel.
Wear appropriate protective equipment.

ENVIRONMENTAL PRECAUTIONS

: Prevent spills from entering sewers, watercourses or low areas.
Do not wash away into sewers or waterway.

METHODS FOR CLEANING UP

- Recovery : Avoid raising dust.
Sweep up with a minimum of dusting and place into suitable
containers for reclamation or disposal.
Residue should be cleaned up using a high-efficiency particulate filter
vacuum.

7. HANDLING AND STORAGE

HANDLING

Technical Measures

- Prevention of user exposure : Do not breathe dust.
Avoid contact with eyes, skin or clothing.
Keep container tightly closed.
Wash thoroughly after handling.

Precautions : Use only with adequate ventilation.
Prevent deposition of dust.

STORAGE

Technical Measures : Store in a dry place and keep container tightly closed when not in use.

Storage Conditions

Suitable : Store in a cool, dry, well-ventilated location.

Separation from incompatible products

: Keep from any possible contact with water.
Separate from oxidizing materials.

PACKING MATERIALS

Recommended : Not restricted.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES : Provide local exhaust ventilation system to meet published exposure limits.
Make available emergency shower and eye wash in the work area.

CONTROL PARAMETERS

Exposure Limits : ACGIH TLV-TWA (2008: Recommended) as PNOS
10 mg/m³ (Inhalable particles), 3 mg/m³ (Respirable particles)

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection : Dust respirator
Hand Protection : Gloves, chemical resistant gloves
Eye Protection : Safety goggles
Skin And Body Protection : Wear appropriate protective clothing and equipment to prevent repeated or prolonged skin contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : White fine powder

Form : Powder

Color : White

Odor : Odorless

Molecular Weight : No data available

SPECIFIC TEMPERATURES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

Boiling Point : Not Applicable

Melting Point : 350 °C (decomposes)

SPECIFIC GRAVITY : No data available

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Soluble in hydrofluoric acid and alkali solution.

10. STABILITY AND REACTIVITY

STABILITY : Stable at normal temperatures and pressures.

POSSIBLE HAZARDOUS REACTIONS OCCURRING UNDER SPECIFIC CONDITIONS

: No data available

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : LD₅₀ IV injection-mouse 16mg/kg ^{1*}

LOCAL EFFECTS : Not applicable

CARCINOGENICITY : Not applicable

12. ECOLOGICAL INFORMATION

PERSISTENCE/DEGRADABILITY

: Not available

BIOACCUMULATION : Not available

13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHODS FOR DISPOSAL

Waste from residues : Observe all federal, state and local regulations when disposing of this substance.

14. TRANSPORT INFORMATION

No classification currently assigned.

15. REGULATORY INFORMATION

Regulatory information with regard to this substance in your country or in your region should be examined on your own responsibility.

16. OTHER INFORMATION

The information herein is given in good faith, but no warranty is made, either expressed or implied.

To the best of our knowledge, the information contained herein is accurate.

However, Naikai Salt Industries Co., Ltd. does not assume any liability whatsoever for the accuracy or completeness of information contained herein.

Final determination of suitability of any material should be made on the sole responsibility of the user.

All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we make no warranty that these are all hazards which exist.

References

1*: J. T. Baker Inc., MSDS