## MATERIAL SAFETY DATA SHEET

**IDENTIFICATION NO.**
MS-E05-4  

**CREATION DATE**
Jun/18/1992  

**REVISION DATE**
Nov/05/2014

### SECTION 1  CHEMICAL PRODUCTS & COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>SUBSTANCE NAME</th>
<th>TRADE NAMES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>HYDROXIDE</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>Goldstar</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>Food additive</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>Feed grade</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>Light</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>HEAVY</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>HEAVY PS</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>HEAVY Food additive</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>HEAVY Feed grade</td>
</tr>
<tr>
<td>HIGH PURITY MAGNESIUM CARBONATE</td>
<td>GP-30</td>
</tr>
<tr>
<td>HIGH PURITY MAGNESIUM CARBONATE</td>
<td>GP-30N</td>
</tr>
</tbody>
</table>

**NAME OF COMPANY**
KONOSHIMA CHEMICAL CO., LTD.

**ADDRESS**
3-15, AWARA 1-CHOME, NISHI-ku, OSAKA-CITY, JAPAN 550-0011

**TELEPHONE NO.**
(+81) 6-6110-1132

**FAX NO.**
(+81) 6-6110-1122

### SECTION 2  HAZARDS IDENTIFICATION

**GHS CLASSIFICATION**  
Not classified, Not applicable or Classification not possible

<table>
<thead>
<tr>
<th>PHYSICAL HAZARDS</th>
<th>HEALTH HAZARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Dermal corrosion/irritation</td>
<td>Classification 3</td>
</tr>
<tr>
<td>Serious eye damages/irritation</td>
<td>Classification 2B</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Other elements are</td>
<td>“Classification not possible”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL HAZARDS</th>
<th>Classification not possible</th>
</tr>
</thead>
</table>

**Signal Word**
Warning

**Hazard statement**
Causes mild skin irritation
Causes eye irritation
SECTION 3  COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/PREPARATION  SUBSTANCE
COMPONENT:  MAGNESIUM CARBONATE HYDROXIDE
CHEMICAL FORMULA  x MgCO₃ · y Mg(OH)₂ · z H₂O (x,y,z are incertitude)
CAS NUMBER:  12125-28-9, 546-93-0, 7760-50-1, 23389-33-5 (USP), 39409-82-0 (FCC) etc. (Differed by data source)
SYNONYMS  Basic Magnesium Carbonate
Tetrakis(Carbonato(2-)Dihydroxypenta-Magnesium;
COMPOSITION:  MAGNESIUM CARBONATE HYDROXIDE 100.0%

SECTION 4  FIRST AID MEASURES

INHALATION
Gargle.
Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

SKIN CONTACT
Remove contaminated clothing and shoes immediately. Wash with large amounts of water until no evidence of chemical remains (at least 15-20 minutes).

EYE CONTACT
Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

INGESTION
If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.

SECTION 5  FIRE FIGHTING MEASURES

FIREFIGHTING
No acute hazard (Inflammable).
Move container from fire avoid from fire spread, because it has an unpleasant smell of packaging. And it may occur produce carbon monoxide, according to condition. Avoid breathing vapors or dust; keep upwind.

SECTION 6  ACCIDENTAL RELEASE MEASURES

POINT TO NOTICE FOR PUBLIC HEALTH
Ventilate it enough until processing ends for the room.

PROTECTION MEASURES
Sweep, collect and dispose the dust.
Wear the dust mask, the rubber glove, the apron, and the boot, etc. when working. Watering is effective.

POINT TO NOTICE FOR ENVIRONMENT
Note that dust doesn't disperse.

REMOVING METHOD
If it diluted with water, do the dissolution neutralizing with the acid when you draining it because alkalinity is shown.
SECTION 7  HANDLING AND STORAGE

HANDLING
Set up the local exhaust ventilation and the collection dust equipment or do handling in the place where ventilation is good.
Set up the equipment to wash eyes and to wash the body near the handling place in the emergency.
Prevent dust from dispersing when working.
Work from the windward about work in outdoor.
Wash your the hand and face, etc. well after handling.

STORAGE
Avoid the water and moisture, and keep it in the indoor warehouse.
Seal up the remainder after a package is opened to the plastic bag.

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL
3 mg/m³(inhalable dust), 10 mg/m³(total dust) ACGIH(2004) TWA

VENTILATION
Provide local exhaust ventilation system to meet published exposure limits.

PERSONAL PROTECTION
- RESPIRATOR
  Employee must wear appropriate dust-respirator to prevent inhale with this substance.
- HAND
  Employee must wear appropriate protective gloves to prevent contact with this substance.
- EYE
  Employee must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.
- SKIN AND BODY
  Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION
Fine powder.
COLOR
White.
ODOR
None.
PH
about 10.4 (4% slurry)
MELTING POINT:
2800 °C(as Magnesium Oxide, See Section 10)
BOILING POINT:
3600 °C(as Magnesium Oxide, See Section 10)
SPECIFIC GRAVITY:
2.2
WATER SOLUBILITY:
0.025% (water)

SECTION 10  STABILITY AND REACTIVITY

STABILITY
There is decompose to "Magnesium Oxide", "Carbon dioxide" and "Water", if ignited.
There is a hygroscopicity.
POSSIBILITY OF HAZARDOUS REACTIONS
Will not occur.
SECTION 11  TOXICOLOGY INFORMATION

ACUTE EFFECTS
- Oral LD50  over 5000mg/kg (female mouse)
- Dermal Corrosion/Irritation  May cause irritation, if contact at long time. Causes mild skin irritation “Classification 3”
- Serious Eye Damage/Irritation  May cause irritation. Causes eye irritation “Classification 2B”
- Respiratory sensitization  No data available
- Skin sensitization  No data available
- Germ cell mutagenicity  Negative
- Carcinogenicity  No data available
- Reproductive Toxicity  No data available
- STOT-Single exposure  No data available
- STOT-Repeated exposure  No data available
- Aspiration hazard if inhaled  No data available
- Others  No data available

SECTION 12  ECOLOGICAL INFORMATION

Hazards to the aquatic environment  No data available
Persistence/Degradation:  No data available
Bioaccumulation:  No data available
Movability in the soil  No data available

SECTION 13  DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14  TRANSPORTATION INFORMATION

No classification currently assigned.
TRANSPORTATION METHOD  Protect from water and moisture.

SECTION 15  REGULATORY INFORMATION

Chemical Inventory Status
- TSCA  Y
- EU (EINECS)  Y
- Japan (ENCS)  Y
- Australia (AICS)  Y
- Korea (ECLL)  Y
- Canada (DSL)  Y
- Canada (NDSL)  N
- Philippine (PICCS)  Y

SECTION 16  OTHER

Revision Date: 11/05/2014

As of May 2015, document has been reviewed and remains current until next manufacturer scheduled update

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