

# SAFETY DATA SHEET

**Date Printed :** 23 March 2013

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**Version :** Rev. 3.2

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**Regulation :** In accordance with Regulation (EU) 2015/830 (REACH), Annex II, and OSHA 29 CFR 1910.1200

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Name of product :** HI-MAST

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses :**

- Lubricant and mold release agent in the plastic and rubber industry
- Lubricant and releasing agent for plastic especially, ABS
- Anti-Caking agent
- Surface treatment of filler

**Uses advised against :** Use for recommended use only.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier :** SINWON CHEMICAL CO., LTD.

**Street address/P.O. Box :** 92, Gongdan 1-daero 28beon-gil, Siheung-si, Gyeonggi-do, Korea

**Country ID/Postcode/Place :** Not available

**Telephone number (if possible, indicate telefax) :** +82-31-432-6688

**e-mail address of competent person responsible for the SDS :** swc4@swchem.co.kr

**National contact :** Not available

### 1.4 Emergency Telephone

**Emergency Telephone number :** +82-31-432-6688

**Opening hours :** Not available

**Other comments (e.g. language(s) of the phone service) :** Not available

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

According to the classification provided by companies to ECHA in CLP notifications this substance causes serious eye irritation, may cause long lasting harmful effects to aquatic life, may cause respiratory irritation and causes skin irritation. At least one company has indicated that the substance classification is affected by impurities or additives.

### 2.2 Label elements

**Hazard pictograms :**



**Signal word :** Warning!

**Hazard statement :** eye effect

**Additional precautionary statements :**

Prevention: Wash thoroughly after handling.

Wear protective gloves / protective clothing / eye protection / face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. If possible, remove contact lenses.

Continue to wash. If eye irritation persists seek medical advice / advice.

Storage: Not applicable  
 Disposal: Not applicable

### 2.3 Other hazards

No information available

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixture

**Description of the mixture :**

**Mixture of Magnesium distearate, Water, and Fatty acids**

CAS No.	EC No.	REACH Registration No.	%[weight]	Name	Classification according to Regulation(EC) No 1278/2008(CLP)
557-04-0	209-150-3	Not available	100	Magnesium distearate	See section 2

## SECTION 4 : FIRST-AID MEASURES

### 4.1 Description of first aid measures

**General notes**

- Not available

**Following inhalation**

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

**Following skin contact**

- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash contaminated clothing and shoes before reuse.
- Get immediate medical advice/attention.

**Following eye contact**

- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

**Following ingestion**

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

**Self-protection of the first aider**

- Not available

### 4.2 Most important symptoms and effects, both acute and delayed

**Acute effects**

Not available.

**Delayed effects**

Not available.

### 4.3 Indication of immediate medical attention and special treatment needed

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5 : FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray or CO<sub>2</sub>
- Unsuitable extinguishing media: High pressure water

### 5.2 Special hazards arising from the substance or mixture

- May decompose at high temperatures into forming toxic gases.

- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- Fire will produce irritating and/or toxic gases.
- If inhaled, may be harmful.

### 5.3 Advice for firefighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

**Protective equipment** : Not available

**Emergency procedures** : Not available

#### For emergency responders

- Eliminate all ignition sources
- Stop leak if you can do it without risk.
- Please note that materials and conditions to avoid.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

#### For containment

- Not available

#### For cleaning up

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

#### Other information

- Not available

### 6.4 Reference to other sections

- See also sections 8 and 13 of the Safety Data Sheet.

## SECTION 7 : HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures :

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

**Measures to prevent fire** : Not available

**Measures to prevent aerosol and dust generation**

- Not available

**Measures to protect the environment :**

- Not available

**Advice on general occupational hygiene :**

- Not available

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

- Store in a closed container.
- Store in cool and dry place

**Packaging materials** : Not available**Requirements for storage rooms and vessels** : Not available**Further information on storage conditions** : Not available**7.3 Specific end use(s)****Recommendations** : Not available**Industrial sector specific solutions** : Not available**SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure limits**

Name	Korea regulation	ACGIH regulation	Biological exposure index	OSHA regulation	NIOSH regulation	EU regulation	United Kingdom
Magnesium distearate	Not available	Not available	Not available	Not available	Not available	Not available	Not available

**8.2 Exposure controls****8.2.1 Appropriate engineering controls :****Substance/mixture related measures to prevent exposure during identified uses:** No specific measures**Structural measures to prevent exposure:** No specific measures**Organisational measures to prevent exposure:** No specific measures**Technical measures to prevent exposure:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**8.2.2 Individual protection measures, such as personal protective equipment :****Eye and face protection**

- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

**Skin protection****Hand protection**

Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

**Other skin protection**

Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

**Respiratory protection**

- Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1).
- Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment.

**Thermal hazards**

Not available

**8.2.3 Environmental exposure controls**

Prevent entry into waterways, sewers, basements or confined areas

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****Appearance****Description** : powder**Color** : White**Odor** : Odorless**Odor threshold** : Not available

**pH** : Not available  
**Melting point/freezing point** : 130~140 °C  
**Initial boiling point and boiling range** : Not available  
**Flash point** : Not available  
**Evaporation rate** : Not available  
**Flammability (solid, gas)** : Not available  
**Upper/lower flammability or explosive limits** : Not available  
**Vapor pressure** : Not available  
**Solubility (ies)** : 0.00004 mg/L (25 °C)  
**Vapor density** : Not available  
**Relative density** : Not available  
**Partition coefficient: n-octanol/water** : Not available  
**Auto ignition temperature** : Not available  
**Decomposition temperature** : 390°C  
**Viscosity** : Not available  
**Explosive properties** : Not available  
**Oxidizing properties** : Not available  
**Molecular weight** : 591.27  
**Specific gravity** : 1.028 g/cm<sup>3</sup> (20 °C)

## 9.2 Other information

- Not available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

- Not available.

### 10.2 Chemical stability

- Not available.

### 10.3 Possibility of hazardous reactions

- Fire may produce irritating and/or toxic gases.  
 - If inhaled, may be harmful

### 10.4 Conditions to avoid

- Heat, sparks or flames.

### 10.5 Incompatible materials

- Flammable material

### 10.6 Hazardous decomposition products

- Irritating and/or toxic gases

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

(a) Acute toxicity;	
Oral	Not available
Dermal	Not available
Inhalation	Not available
(b) Skin Corrosion/ Irritation;	Not available
(c) Serious Eye Damage/ Irritation;	Not available
(d) Respiratory sensitization;	Not available
(e) Skin Sensitization;	Not available
(f) Carcinogenicity;	Not available
(g) Mutagenicity;	- ACGIH : A4 (Stearates) - KOREA-ISHL, IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008: Not listed

- (h) Reproductive toxicity; Not available  
 (i) Specific target organ toxicity (single exposure); Not available  
 (j) Specific target organ toxicity (repeat exposure); Not available  
 (k) Aspiration Hazard; Not available

## SECTION 12 : ECOLOGICAL INFORMATION

- 12.1 Toxicity  
 Acute toxicity  
 Fish Not available  
 Invertebrates Not available  
 Algae Not available  
 Chronic toxicity  
 Fish Not classified  
 Invertebrates Not classified  
 Algae Not classified  
 12.2 Persistence and Degradability Persistence : Not available  
 Degradability : Not available  
 12.3 Bioaccumulative potential Bioaccumulation : Not available  
 Biodegradation : Not available  
 12.4 Mobility in soil Not available  
 12.5 Results of PBT and vPvB assessment Not available  
 12.6 Other adverse effects Not available

## SECTION 13 : DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Consider the required attentions in accordance with waste treatment management regulation.

**Waste codes / Waste designation according to LoW(2015) :** Not available

#### Waste treatment-relevant information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### Sewage disposal-relevant information

Not available

#### Other disposal recommendations

Not available

## SECTION 14 : TRANSPORT INFORMATION

- 14.1 UN Number : Not applicable. Not classified with a dangerous goods.  
 14.2 UN Proper shipping name : Not applicable  
 14.3 Transport Hazard class : Not applicable  
 14.4 Packing group : Not applicable  
 14.5 Environmental hazards : Not applicable  
 14.6 Special precautions for user  
 in case of fire : Not applicable  
 in case of leakage : Not applicable  
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not Available

**SECTION 15 : REGULATORY INFORMATION****15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****EU Regulatory Information****EU classification :****EU CLP 2008 :****Classification :** Not classified**Hazard statement codes :** Not applicable**Precautionary statement codes :** Not applicable**EU SVHC list :** Not regulated**EU Authorisation List :** Not regulated**EU Restriction list :** Not regulated**Foreign Regulatory Information****External information :****U.S.A management information (OSHA Regulation) :** Not regulated**U.S.A management information (CERCLA Regulation) :** Not regulated**U.S.A management information (EPCRA 302 Regulation) :** Not regulated**U.S.A management information (EPCRA 304 Regulation) :** Not regulated**U.S.A management information (EPCRA 313 Regulation) :** Not regulated**Korea management information :** Not regulated**Substance of Roterdame Protocol :** Not regulated**Substance of Stockholme Protocol :** Not regulated**Substance of Montreal Protocol :** Not regulated

**15.2 Chemical safety assessment :** In accordance with REACH Article 14, a Chemical Safety Assessment has been carried out for this substance.

**SECTION 16 : OTHER INFORMATION**

**Product safety data sheet for HI-MAST prepared in accordance with Regulation (EU) 2015/830 (REACH), Annex II, and OSHA 29 CFR 1910.1200**

**16.1 Indication of changes****Date Updated :** 15. Dec. 2021**Version :** Rev. 3.2**16.2 Abbreviations and acronyms****ACGIH** = American Conference of Government Industrial Hygienists**CLP** = Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008**CAS No.** = Chemical Abstracts Service number**DMEL** = Derived Minimal Effect Levels**DNEL** = Derived No Effect Level**EC Number** = EINECS and ELINCS Number (see also EINECS and ELINCS)**EU** = European Union**IARC** = International Agency for Research on Cancer**ISHL** = Industrial Safety & Health Law**NIOSH** = National Institute for Occupational Safety & Health**NTP** = National Toxicology Program**OSHA** = European Agency for Safety and Health at work**PBT** = Persistent, Bioaccumulative and Toxic substance**PNEC(s)** = Predicted No Effect Concentration(s)**REACH** = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 2015/830**STP** = Sewage Treatment Plant**SVHC** = Substances of Very High Concern**vPvB** = Very Persistent and Very Bioaccumulative**UN** = United Nations**MARPOL** = International Convention for the Prevention of Pollution from Ships (IMO)**IBC** = Intermediate Bulk Container**CERCLA** = Comprehensive Environmental Response, Compensation & Liability Act (US)**EPCRA** = Emergency Planning and Community Right-to-Know Act (US)

**EINECS** = European Inventory of Existing Commercial chemical Substances

**ELINCS** = European List of Notified Chemical Substances

**16.3 Key literature reference and sources for data :**

OECD SIDS; <http://webnet.oecd.org/hpv/ui/Search.aspx>

REACH information on registered substances; <http://apps.echa.europa.eu/registered/registered-sub.aspx>

International Uniform Chemical Information Database(IUCLID); <http://esis.jrc.ec.europa.eu/>

European Union Risk Assessment Report (RAR); <http://esis.jrc.ec.europa.eu/>

U.S. National library of Medicine(NLM) Hazardous Substances Data Bank(HSDB); <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>

TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>

ECOTOX; <http://cfpub.epa.gov/ecotox/>

National Emergency Management Agency-Korea dangerous material inventory management system;

<http://www.nema.go.kr/hazmat/main/main.jsp>

The Chemical Database -The Department of Chemistry at the University of Akron; <http://ull.chemistry.uakron.edu/erd/>

Korea Maritime Dangerous Goods Inspection Center; <http://www.komdi.or.kr/index.html>

**16.4 Classification and procedure used to derive the classification for mixtures according to Regulation(EC) 1272/2008(CLP):**

Classification according to Regulation (EC) 1272/2008

Classification procedure

**16.5 Relevant R-phrases and/or H-statements (number and full text) :** Not available

**16.6 Training advice :**

- Do not handle until all safety precautions have been read and understood.

**16.7 Further information :**

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation and OSHA 29 CFR 1910.1200, as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.