

SAFETY DATA SHEET

Date Printed : 23 April 2013

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Version : Rev. 2

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

HI-MAST is not classified according to Regulation (EC) No 1272/2008 [CLP] and OSHA 29 CFR 1910.1200: Not classified

2.2 Label elements

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statement : Not applicable

Additional precautionary statements : 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	96	Magnesium distearate	See section 2
7732-18-5	231-791-2	Not available	3	water	See section 2
67701-03-5	266-928-5	Not available	1	Fatty acids, C16-18	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 CO₂
- 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.

SEC- TION 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
water	Not available	Not available	Not available	Not available	Not available	Not available	Not available
Fatty acids, C16-18	Not available	TWA = 10 mg/m ³ (Stearates)	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/cm³ (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 Persistence : Not available
Degradability	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 : 31 May 2016

Version : Rev. 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/>

