

# TECHNICAL DATA SHEET

MSDS HIMACS Sheet | Material Safety Data Sheet

## PRODUCT AND COMPANY INFORMATION

**Product Name:** HIMACS

**Company:** LX HAUSYS Ltd.

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### Recommended use of the chemical and restrictions on use

Recommended use : Artificial marble

Restrictions on use : It is inedible.

## HAZARDS IDENTIFICATION

### Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Physical hazard : Not applicable

Health hazard : Not applicable

Environment hazard : Not applicable

### Label elements including precautionary statements

Symbol / Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements : Not applicable

### NFPA Rating

Health : 0 Flammability : 0 Reactivity : 0 Water reactivity : 0

## COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EINECS No.	Conc. %
Methyl Methacrylate	80-62-6 * from US NLM	.201-297-1 ** from ECHA	30% ~ 40%
Aluminum hydroxide oxide	24623-77-6	246-368-8	60% ~ 65%
Additives	-	-	1% ~ 2%

## **FIRST AID MEASURES**

### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### **In case of skin contact**

No data available

### **If inhaled**

If breathed in, move person into fresh air.

If not breathing, give artificial respiration. Consult a physician.

### **If swallowed**

Never give anything by mouth to an unconscious person.

Rinse mouth with water.

Consult a physician.

### **Other medical attention.**

Medical personnel should be aware of the protective measures of the substance.

### **Potential health effect**

May be harmful if swallowed.

## **FIRE-FIGHTING MEASURES**

### **Flammable properties**

Flash point : No flash occurred under 93 °C (Rapid equilibrium method)

Burning rate : No combustion sustained at 20 °C (UN TDG test & criteria - Test N1)

### **Suitable extinguishing media**

Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

### **Specific hazards arising from the chemical**

No data available

### **Special protective equipment for fire-fighters**

Fire fighters should enter area wearing respiratory protection and protective equipment.

## **ACCIDENTIAL RELEASE MEASURES**

### **Personal precautions**

Avoid breathing dust.

### **Environmental precautions**

No data available

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposed materials without creating dust

Keep in suitable, closed containers for disposal.

## **HANDLING AND STORAGE**

### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

Avoid breathing dust.

Avoid contact with skin and eyes.

Wash hands thoroughly after handling.

### **Conditions for safe storage**

Keep in suitable, closed containers for disposal.

## **EXPOSURE CONTROL/PERSONAL PROTECTION**

### **Components with workplace control parameter**

**KOSHA** : No data available

**ACGIH** : No data available

**Appropriate engineering controls** : Ventilation

### **Personal protective equipment**

**Respiratory protection** : General dust mask

**Hand protection** : Protective gloves

**Eye protection** : Protective goggles

**Skin and body protection** : Working clothes

## **PHYSICAL AND CHEMICAL PROPERTIES**

**State** : Solid (Not powder) at 20 °C

**Appearance** : Plate (Thickness : > 11 mm)

**pH** : 6.5 ~ 7.5 at 20 °C      ※ Sample : H<sub>2</sub>O = 1 : 5 ( V/V )

**Flash point** : No flash occurred under 93 °C. (Rapid equilibrium method)

**Auto ignition temperature** : No spontaneous combustion under 200 °C

**Water solubility** : Water Insoluble at 20 °C

**Relative density** : 1.7 at 20 °C

### **Flammability**

Burning rate : No combustion sustained at 20 °C (UN TDG test & criteria - Test N1)

**Oxidizing properties** : No oxidizing hazard

**Explosive properties** : No data available

**Melting range** : > 100 °C      ※ UN TDG test & criteria - Test O1

**Boiling point** : No data available

**Vapour pressure** : No data available

**Evaporation rate** : No data available

**Decomposition temperature** : No data available

**Partition coefficient (n-octanol / water)** : No data available

**Viscosity** : No data available

**Lower explosion limit / Upper explosion limit** : No data available

## **STABILITY AND REACTIVITY**

### **Chemical stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

Avoid breathing dust.

## Materials to avoid

Strong acids

## Hazardous decomposition products

Carbon oxides

## TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral	rat	LD50 :	No data available	※ from US NLM / ECHA
Inhalation	rat	LC50 :	No data available	
Skin	rabbit	LD50 :	No data available	

**Skin irritation** : No data available

**Eye irritation** : No data available

**Respiratory sensitization** : No data available

**Skin sensitization** : No data available

**Germ cell mutagenicity** : No data available

**Carcinogenicity** : Not classifiable ※ from CCRIS / IARC

**Reproductive toxicity** : No data available

**Specific target organ toxicity - single exposure (GHS)** : No data available

**Specific target organ toxicity - repeated exposure (GHS)** : No data available

**Aspiration hazard** : No data available

## ECOLOGICAL INFORMATION

### Toxicity

Fish	LC50 :	No data available	※ from US NLM / ECHA
Crustacean	EC50 :	No data available	
Algae	EC50 :	No data available	

**Persistence and degradability** : No data available

**Bio accumulative potential** : No data available

**Mobility in soil** : No data available

**Other adverse effects**: No data available

## DISPOSAL CONSIDERATIONS

### Disposal consideration

Observe all environmental regulations.

### Disposal precaution

Keep in suitable, closed containers for disposal.

## TRANSPORT INFORMATIONS

**UN TDG** : Not dangerous goods

**IATA** : Not dangerous goods

**IMDG** : Not dangerous goods

**Marine pollution** : Not applicable

## Special precaution

Fire EmS Guide : F-A (Recommendation)

Spillage EmS Guide : Not dangerous goods

## REGULATORY INFORMATION

### Korea Industrial Safety and Health Act :

GHS : Not applicable

Material(s) applied by workplace exposure limits : Not applicable

### Korea Hazardous Materials Safety Control Act : Not hazardous material

### Korea Chemicals Control Act :

Material(s) applied by toxic substances : Not applicable

Material(s) applied by restricted and prohibited substances : Not applicable

## OTHER INFORMATION

**Issued Date:** 2019. 01. 22.

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**Revision Date :** 2021. 07.07

### References

- GHS Classification :  
Korea MSDS Testing Lab Certificate (Report No. 2020-03-004116), US NLM
- Physical and chemical properties : Korea MSDS Testing Lab Certificate
- Transport information : Korea MSDS Testing Lab Certificate
- Toxic & ecological information : OECD SIDS, ECHA, US NLM, HSDB, IARC, CCRIS, JP NITE

### Acronyms and Websites

- ECHA : European chemical agency, <http://echa.europa.eu/>
- US NLM : U.S. National Library of Medicine, <http://chem.sis.nlm.nih.gov/chemidplus/>
- HSDB : US Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/>
- CCRIS : US Chemical Carcinogenesis Research Information System,  
<http://toxnet.nlm.nih.gov/>
- IARC : International Agency for Research on Cancer, <http://monographs.iarc.fr/>
- JP NITE : Japan National Institute of Technology and Evaluation, <http://www.safe.nite.go.jp/>