HI-MACS®
Natural Acrylic Stone™

TECHNICAL DATA SHEET

MSDS HI-MACS® Sheets | Material Safety Data Sheet



LG Hausys

PRODUCT AND COMPANY INFORMATION

Product name : HI-MACS

Company : LG 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 ℃ (Rapid equilibrium method)
Burning rate : No combustion sustained at 20 ℃ (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 ℃

Appearance : Plate (Thickness : > 11 mm)

pH : 6.5 ~ 7.5 at 20 ℃ ※ Sample : H_2O = 1 : 5 (*V/V*)

Flash point : No flash occurred under 93 ℃. (Rapid equilibrium method)

Autoignition temperature : No spontaneous combustion under 200 ℃

Water solubility : Water Insoluble at 20 ℃

Relative density : 1.7 at 20 ℃

Flammability

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

Oxidizing properties : No oxidizing hazard ※ UN TDG test & criteria - Test O1
Explosive properties : No data available

Melting range : > 100 ℃

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

Bioaccumulative 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 : 2020. 06.29

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/