

# KUMHO PETROCHEMICAL

# Safety Data Sheet

## According to Hazard Communication Standard (29 CFR 1910.1200)

**HIPS** 

Version 1.0

First Issue date: 11/10/2022 Revision date: 01/02/2023

SDS record number: CSSS-TCO-010-153197

1. Identification

Product name HI 425, HI 425EH, HI 425EH, HI 425EH, HI 425EP, HI 425ER, HI 425TV, HI

EF425TV, HI 425TVL, HI 450PG, HI 450W, HI 470R, HI 490FB, MIB IT, MIB 237

Synonyms -

CAS # See section 3

Product code -

**Product use**General Purpose HIPS.

Manufacturer/Supplier

Supplier(Manufacturer): Korea Kumho Petrochemical Co., Ltd.

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 1-858-987-0023

## 2. Hazard(s) identification

**GHS** classification

Physical hazardsNot classifiedHealth hazardsNot classifiedEnvironmental hazardsNot classified

**GHS** label elements

Hazard Pictograms No hazard pictogram is used.

Signal word No signal word is used.

Hazard statement Not applicable.

**Precautionary statement** 

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Other hazardsNot available.

# 3. Composition / information on ingredients

Components	CAS#	Percent	
Ethenylbenzene polymer with 1,3-butadiene	9003-55-8	95~100%	
White mineral oil (petroleum)	8042-47-5	0~5%	

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#### 4. First-aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water at least 15minutes. If irritation

persists, get a doctor's examination.

Skin contact Wash the contaminated skin area with running water. Remove contaminated

clothes and shoes. If irritation persists, get a doctor's examination.

Inhalation Intake the water to clean the throat and blow nose to remove the dust. Remove

exposed person to fresh air. Take Artificial respiration if not breathing. Give

oxygen, if breathing is difficult. Get medical attention.

Ingestion Rinse mouth with water. Give large amounts of water to relieve stimulus. If

irritation or symptoms occurs, get a doctor's examination.

Notes to physician Treat symptoms.

# 5. Fire-fighting measures

Flammable properties Not available.

**Extinguishing media** 

Suitable extinguishing media Carbon Dioxide, Water, foam. Large fire: Water spray, regular foam.

**Unsuitable extinguishing media**Do not use direct water.

Firefighting equipment/instructions Wear appropriate personal protective equipment (see section 8. EXPOSURE

CONTROLS/PERSONAL PROTECTION). Avoid inhalation of smoke or gas when fire fighting. Move container from fire area if it can be done without risk. Cool containers with water until well after fire is out. Stay upwind and keep out

of low areas. Avoid inhalation of substance itself or combustion.

Hazardous combustion products Generate pyrolysis such as carbon dioxide, carbon monoxide and styrene when

combustion.

## 6. Accidental release measures

Personal precautions Perform in accordance with \( \section \) 8 . EXPOSURE CONTROLS /

PERSONAL PROTECTION  $\rfloor$  . Put on appropriate personal protective equipment. Use a way to minimize dust. Avoid contact with eyes and skin. Avoid inhalation of substance itself or combustion. Evacuation against the wind. Keep

unauthorized personnel out. Avoid contact with heat, sparks, flame or other

ignition sources.

Environmental precautions Avoid dispersal of spilt material and runoff and contact with waterways, drains

and sewers. If large spills, advise emergency services.

Methods for cleaning up For small spills: Remove all sources of ignition. Suppression occurrence of

dust. Appropriate container for disposal of spilled material collected. Ventilate

leak areas and clearing leak area.

For large spills: Remove all sources of ignition. Suppression occurrence of

dust. Avoid entering to sewers or water system. For disposal of spilled material in appropriate containers collected and clear surface. Appropriate container for

disposal of spilled material collected.

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# 7. Handling and storage

Handling Handle in a well-ventilated place. Avoid contact with heat, sparks, flame or

other ignition sources. Remove all sources of ignition. Use all the equipment

after the ground. Wash thoroughly after handling.

Storage Keep in original container and tightly closed. Do not store where the moisture.

Avoid contact with incompatible materials.

## 8. Exposure controls / personal protection

**Control parameters:** 

Occupational exposure limits

This mixture has no ingredients that have PEL, TLV, or other recommended

exposure limit.

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection Wear primary eye protection such as splash resistant safety goggles with a

secondary protection face shield. Provide an emergency eye wash station and

quick drench shower in the immediate work area.

**Skin protection** Wear chemical resistant protected gloves if there is hazard potential for direct

skin contact. Wear heat resistant protected gloves to withstand the temperature of molten product. Wear chemical resistant protected clothing if there is hazard

potential for direct contact.

Respiratory protection Respiratory protection may be needed. Respiratory protection is ranked in order

from minimum to maximum. Consider warning properties before use.

- Dust, mist, fume-purifying respiratory protection.

- Any air-purifying respirator with a corpuscle filter of high efficiency.

- Any respiratory protection with a electro motion fan(for dust, mist,

fume-purifying).

- Self-contained breathing apparatus(pressure-demand or other

positive-pressure mode in combination).

- Supplied-air respirator with full face piece.

**General hygiene** Wash hands, forearms and face thoroughly after handling chemical products,

before eating, smoking and using the lavatory and at the end of the working

period. Keep away from foodstuffs, beverages and feed. Immediately remove

all soiled and contaminated clothing.

## 9. Physical and chemical properties

**Appearance** 

considerations

Physical state Solid
Form Pellet

Color Ivory, May vary depending on color combination prescription

**Odor** Odorless

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Odor threshold

PH

Not available

Vapor pressure

Not available

Melting point/Freezing point

Initial boiling point and boiling range

Flash point

Not available

350 °C

**Evaporation rate** Not available Flammability (solid, gas) Not available **Explosion limits** Not available Not available Vapor density Not available Relative density Insoluble Solubility (water) Partition coefficient Not available 455 °C **Auto-ignition temperature** 

Decomposition temperature

Specific gravity

Relative Density

Flammability limits in air, upper, %by volume

Flammability limits in air, lower, % by volume

Not available

Not available

VOC Not available
Percent volatile Not available

Other data

Viscosity Not available

## 10. Stability and reactivity

Chemical stability Material is stable under normal conditions.

Conditions to avoid Incompatible materials. Avoid contact with heat, sparks, flame or other ignition

sources.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Combustion may cause carbon oxide, nitrogen oxides.

Possibility of hazardous reactions No dangerous reactions known.

#### 11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

White mineral oil (petroleum) (CAS#8042-47-5)

LD50(Oral, Rat):> 5000 mg/kg bwLD50(Dermal, Rabbit):> 2000 mg/kg bwLC50(Inhalation, Rat):> 5 mg/L 4 hSkin corrosion/Irritation:Not classified.

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Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Not classified Germ cell mutagenicity: Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT- single exposure: Not classified STOT-repeated exposure: Not classified Aspiration hazard: Not classified

## 12. Ecological information

#### Toxicity:

White mineral oil (petroleum) (CAS#8042-47-5)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LL50	> 10000 mg/L	96h	Fish	OECD 203	N/A	N/A
LL50	> 100 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Results of PBT&vPvB assessment:

Not available.

Not available.

Other adverse effects: No known significant effects or critical hazards.

# 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with

local/regional/national/international regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings

even after container is emptied.

# 14. Transport information

#### DOT

Basic shipping requirements:

UN number Not regulated
Proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated

Environmental hazards No

IATA

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated

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**Environmental hazards** No

**IMDG** 

**UN** number Not regulated **UN proper shipping name** Not regulated Transport hazard class(es) Not regulated **Packing group** Not regulated

**Environmental hazards** No

## 15. Regulatory information

#### US federal regulations

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

## 16. Other information, including date of preparation or last revision

Health: 0 **HMIS®ratings** 

> Flammability: 1 Physical hazard: 0

Health: 0

NFPA ratings

Flammability: 1 Instability: 0

The information in the sheet was written based on the best knowledge and **Disclaimer** 

experience currently available.

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