

## KUMHO PETROCHEMICAL

## Safety Data Sheet

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

HSAN 600 A

Version 1.0

First Issue date: 11/10/2022

Revision date: 01/02/2023 SDS record number: CSSS-TCO-010-153199

1. Identification

Product name HSAN 600 A

Synonyms -

CAS # See section 3

Product code -

Product use Heat-resisting material.

Manufacturer/Supplier

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

Address: 260-257, Cheoyong-ro, Nam-Gu, Ulsan, 44785, Korea

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 +82-52-279-8840

 Emergency telephone Number:
 1-858-987-0023

2. Hazard(s) identification

**GHS** classification

Physical hazards Not classified
Health hazards Not classified
Environmental hazards Not classified

**GHS** label elements

Hazard Pictograms No hazard pictogram is used.

Signal word No signal word is used.

Hazard statement Not applicable.

**Precautionary statement** 

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Other hazards Not available.

## 3. Composition / information on ingredients

Components	CAS#	Percent
2-Propenenitrile polymer with ethenylbenzene and	9010-96-2	99~100%
(1-methylethenyl)benzene		

#### 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. Lifting eyelids occasionally to wash eyelids

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down enough to follow up.

**Skin contact**Wash the contaminated skin area with running water. Cooling the contaminated

skin with cool running water when contact with melt. Get medical attention

when burn by melt.

Inhalation Remove exposed person to fresh air If inhaled smoke and decomposition

products. Remove victim to fresh air and keep at rest in a position comfortable.

Get medical attention.

**Ingestion** Rinse mouth with water. Give large amounts of water. Toxic by ingestion does

not high. 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, Dry Chemical, Water. Big 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.

Hazardous combustion products Carbon monoxide, Carbon dioxide, hydrogen cyanide.

## 6. Accidental release measures

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

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

PERSONAL PROTECTION ] . Put on appropriate personal protective

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.

## 7. Handling and storage

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

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other ignition sources. Remove all sources of ignition. Ground all equipment.

Wash thoroughly after handling.

Storage Keep in original container and tightly closed. Avoid contact moisture. Avoid

contact with incompatible materials.

## 8. Exposure controls / personal protection

**Control parameters:** 

Occupational exposure limits

This substance has no 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).

\* For Unknown Concentration or Immediately Dangerous to Life or Health.

- 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 Colorless
Odor Mild odor
Odor threshold Not available
pH Not available

Vapor pressure Not available

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Melting point/Freezing point >100 °C initial boiling point and boiling range Not available Not available Flash point Not available **Evaporation rate** Flammability (solid, gas) Not available Not available **Explosion limits** Not available Vapor density Relative density Not available Solubility (water) Insoluble

Solubility (others) Acetone, MEK, dichloromethane : Soluble

Alcohol, Mineral Oil: insoluble:

Partition coefficient Not available **Auto-ignition temperature** Not available Not available **Decomposition temperature** Specific gravity Not available 1.02-1.17 **Relative Density** Flammability limits in air, upper, %by volume Not available Flammability limits in air, lower, % by volume Not available VOC Not available Percent volatile Not available

Other data

Viscosity Not available

#### 10. Stability and reactivity

Chemical stabilityMaterial is stable under normal conditions. Decompose at 320°C on heating.Conditions to avoidIncompatible materials. Avoid contact with heat, sparks, flame or other ignition

sources.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition products

Hydrogen cyanide. Generate monomer, oxides, gas/steam, hydrocarbon,

low-molecular oligomers ring, gas products when heated to high temperature.

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:

LD50(Oral, Rat):Not availableLD50(Dermal, Rat):Not availableLC50(Inhalation, Rat):Not availableSkin corrosion/Irritation:Not classifiedSerious eye damage/irritation:Not classified

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Respiratory or skin sensitization:

Germ cell mutagenicity:

Not classified

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:**

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	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

Environmental hazards No

**IMDG** 

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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

HMIS®ratings Health: 0

Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

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

experience currently available.

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