

## SDS(Safety Data Sheet)

Product	HIPRENE H430		
MSDS Number	List No.	Issuing date	Last revised date
-	PP1115	2010-05-27	2022-01-18

### 1. IDENTIFICATION

**1) Product name**

HIPRENE H430

**2) Recommended use of the chemical and restriction on use**

- Recommended use                      Feed materials, Intermediates  
   Plastic products
- Restrictions on use                      Do not use for any other purpose.

**3) Details of the supplier of the safety data sheet**

**Manufacturer**

- Company name                              GS Caltex Corporation
- Address                                        GS Tower, 508, Nonhyeon-ro, Gangnam-gu, Seoul, Korea
- Emergency telephone number      1544-5151

### 2. HAZARDS IDENTIFICATION

**1) Classification of the product**

- Not applicable

**2) Label elements**

**Hazard pictograms**

- Not applicable

**Signal word**

- Not applicable

**Hazard statements**

- Not applicable

**Precautionary statements**

**1) Prevention**

- Not applicable

**2) Response**

- Not applicable

**3) Storage**

- Not applicable

**4) Disposal**

- Not applicable

### 3) Other hazards

#### ○ Product NFPA Level

(※ 0-Lack, 1-Low, 2-Moderate, 3-High, 4-Very High)

Product name	Health	Flammable	Reaction
HIPRENE H430	0	0	0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Trade names and Synonyms	CAS No.	EC No.	Contain Ratio(%)
1-Propene homopolymer		9003-07-0		99 ~ 100
Additive(Trade secret)				0 ~ 1

Except for the above components, all components are not listed as they do not meet the criteria for hazardous risk classification in Article 104 (Classification of Hazardous Factors) of Regulated Acts and Occupational Safety and Health Act.

### 4. FIRST AID MEASURES

- 1) Eye contact**
- In case of contact with material, immediately flush eyes with running water for at least 15 minutes.
  - If eye irritation persists: Get medical advice/attention.
- 2) Skin contact**
- In case of contact with material, immediately flush skin with running water for at least 15 minutes.
  - Remove and isolate contaminated clothing and shoes.
  - Launder contaminated clothing and shoes before re-use.
  - If skin irritation occurs: Get medical advice/attention.
- 3) Inhalation**
- Move victim to fresh air.
  - Give artificial respiration if victim is not breathing.
  - Administer oxygen if breathing is difficult.
  - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 4) Ingestion**
- If unconscious but breathing, never give anything by mouth
  - If swallowed do not induce vomiting, seek medical advice immediat.
  - Get immediate medical advice/attention.
  - Rinse mouth.
- 5) Indication of any immediate medical attention and special treatment needed**
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES

- 1) Suitable (and unsuitable) extinguishing media** - Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media)

- Large fire: Water spray/fog, regular foam (Suitable extinguishing media)
- High-pressure water (Unsuitable extinguishing media)

**2) Special hazards arising from the substance or mixture**

- May be ignited by heat, sparks or flames.
- Fire may produce irritating and/or toxic gases.
- May cause toxic effects if inhaled.

**3) Special protective equipment and precautions for firefighters**

- Substance may be transported hot.
- Runoff may cause pollution.
- Contact may cause burns to skin and eyes.
- 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.

## 6. ACCIDENTAL RELEASE MEASURES

**1) Health considerations and protective equipment**

- Do not touch or walk through spilled material.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Ventilate the contaminated area.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Please note that materials and conditions to be avoided.

**2) Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

**3) Methods and material for containment and cleaning up**

- Small Spill: Flush area with flooding quantities of water.
- 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.
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Small Spill: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

## 7. HANDLING AND STORAGE

**1) Precautions for safe handling**

- Wash ... thoroughly after handling.
- Please note that materials and conditions to be avoided.
- Handling refer to engineering control/personal protection section.
- Caution: High temperature

**2) Conditions for safe**

- Store in a dry place. Store in a closed container.

storage (including any incompatibilities)

- Please note that materials and conditions to be avoided.
- Store in a closed container.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 1) Control parameters

Chemical name	Exposure limits	ACGIH TLV	OSHA PEL	Biological limit values(BLV)
1-Propene homopolymer	Not available	Not available	Not available	Not available
Additive(Trade secret)	Not available	Not available	Not available	Not available

### 2) Appropriate engineering controls

- Adjust the ventilation rate to suit the condition.
- If the exposure limits are not set, keep the air level at an acceptable level.

### 3) Personal protection equipment

- **Respiratory protection**
  - Wear a adequate respiratory protection equipment with certificate by considering physicochemical properties of exposed particulate material.
  - In case exposed to particulate material, the respiratory protective equipments as follow are recommended. - facepiece filtering respirator or air-putifying respirator, high-efficiency particulate air(HEPA) filter media or respirator equipped with power
  - In lack of oxigan(<19.6%), wear the supplied-air respirator or self-contained breathing apparatus.
  - Consider the warning characteristics beforehand.
- **Eye protection**
  - Wear breathable safety goggles to protect from material causing eye irritation or other disorder.
  - An eye wash unit and safety shower station should be available nearby work place.
  - In case of direct exposure or potential exposure to the substance, wear safety glasses for chemicals approved in the country.
- **Hand protection**
  - Wear appropriate protective gloves by considering physical and chemical properties of chemicals.
  - In case of direct exposure or potential exposure to the substance, wear safety gloves for chemicals approved in the country.
- **Body protection**
  - Wear appropriate protective clothing by considering physical and chemical properties of chemicals.
  - In case of direct exposure or potential exposure to the substance, wear protective clothing for chemicals approved in the country.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Item	Input Value
Apperance	Pellet

Color	No Data
Smell	Odorless
Smell Threshold	No Data
pH (Numerical value)	No Data
Melting/Freezing Point	160~170 °C
Boiling Point	No Data
Flash Point	No Data
Evaporating Rate	No Data
Flammability(Solid, Gas)	No Data
Explosibility Range	No Data
Steam Pressure	No Data
Solubility	No Data
Vapor Density	자료없음
Specific Gravity	0.89~0.91
Distribution Coefficient	No Data
Selfignition Temperature	375~400 °C
Pyrolysis Temperature	No Data
Viscosity	No Data
Molecular Weight	No Data

## 10. STABILITY AND REACTIVITY

- 1) Chemical Stability and hazardous reactivity** - Stable under normal temperatures and pressures.  
- Containers may explode when heated.  
- Some may burn but none ignite readily.
- 2) Conditions to avoid** - Ignition source(heat, spark, flame)
- 3) Incompatible materials** - Combustibles  
- Irritating and/or toxic gas
- 4) Hazardous decomposition products** - Not available

## 11. TOXICOLOGICAL INFORMATION

- 1) Information on the likely routes of exposures**
- **Inhalation**  
- No inhalation effects through respiratory system.

**Skin contact**

- No effect on skin contact.

**Eye contact**

- No effect on eye contact.

**Ingestion**

- No ingestion effect through mouth.

**2) Health hazard information**

**Acute toxicity**

**\* Oral - Not classified (ATEmix > 2000 mg/kg)**

- 1-Propene homopolymer : rat; LD50 > 8000 mg/kg

- Additive(Trade secret) : Not available

**\* Dermal - Not classified (ATEmix > 2000 mg/kg)**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**\* Inhalation(Gas) - Not applicable**

- 1-Propene homopolymer : Not applicable

- Additive(Trade secret) : Not available

**\* Inhalation(Vapour) - Not applicable**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**\* Inhalation(Dust, mist) - Not classified (ATEmix > 5 mg/L)**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Skin corrosion/Irritation : Not classified**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Serious eye damage/irritation : Not classified**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Respiratory sensitization : Not classified**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Skin sensitization : Not classified**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Carcinogenicity : Not classified**

- 1-Propene homopolymer : IARC : Group 3 (Not Classifiable)

- Additive(Trade secret) : Not available

**Germ cell mutagenicity : Not classified**

- 1-Propene homopolymer : Not available

- Additive(Trade secret) : Not available

**Reproductive toxicity : Not classified**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Specific target organ toxicity (single exposure) : Not classified**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Specific target organ toxicity (repeated exposure) : Not classified**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Aspiration hazard : Not classified**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not available

## 12. ECOLOGICAL INFORMATION

### 1) Ecotoxicity

- Acute toxicity : Not classified (ATEmix>1mg/L)
- Chronic toxicity : Not classified

**Acute (short-term) aquatic hazard:**

**Fish**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Invertebrates**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Aquatic algae**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Chronic (Long-term) aquatic hazard:**

**Fish**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Invertebrates**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**Aquatic algae**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

### 2) Persistence and degradability

**Persistence**

- 1-Propene homopolymer : log Kow = 17.21 (estimated) (EPISUITE); not valid (over  $-4 < \log Kow < 8$ )
- Additive(Trade secret) : Not available

○ **Degradability**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**3) Bioaccumulative potential**

○ **Bioaccumulation**

- 1-Propene homopolymer : BCF = 3.162 (estimated) (EPISUITE); but not valid (derived from over  $-4 < \log Kow < 8$ )
- Additive(Trade secret) : Not available

○ **Biodegradation**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**4) Mobility in soil**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

**5) Hazard to the ozone layer**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not available

**6) Other adverse effects**

- 1-Propene homopolymer : Not available
- Additive(Trade secret) : Not available

## 13. DISPOSAL CONSIDERATIONS

**1) Disposal methods**

- Waste must be disposed of in accordance with federal, state and local environmental control regulation.

**2) Special precaution for disposal**

- Consider the required attentions in accordance with waste treatment management regulation.

## 14. TRANSPORT INFORMATION

**1) UN No.**

- Not applicable

**2) Proper shipping name**

- Not applicable

**3) Transport hazard class(es)**

- Not applicable

**4) Packing group**

- Not applicable

**5) Marine pollutant**

- Not applicable

**6) Special safety response for transportation or transportation measure**

- Types of Emergency Measures in Case of Fire : Not applicable
- Types of Emergency Measures in Leakage : Not applicable
- Transport regulations according to ADR/RID, AND, IMDG and ICAO/IATA : Not applicable



## 15. REGULATORY INFORMATION

### EINECS( or ELINCS)

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

### EU CLP (CLASSIFICATION) - PRODUCT : Not applicable

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

### Substances restricted under REACH

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

### Substances subject to authorization under REACH

### REACH SVHC List

#### Korea

##### Occupational Safety and Health Act

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### K-REACH

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### Chemical Control Act in Korea

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### Safety Control of Dangerous Substances Act

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

#### U.S.A

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### CERCLA Designation of hazardous substances (40 CFR 302.4)

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### CERCLA Section 302 regulation

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### CERCLA Section 304 regulation

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

##### CERCLA Section 313 regulation

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

### Interntional Convention on Environment

**Rotterdam Convention list**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

**Stockholm Convention list**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

**Montreal Protocol list**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

**National Inventory**

**Korea**

- 1-Propene homopolymer : Not applicable
- Additive(Trade secret) : Not applicable

**U.S.A**

- 1-Propene homopolymer : US TSCA phase-in substance
- Additive(Trade secret) : Not applicable

**China**

- 1-Propene homopolymer : China phase-in substance
- Additive(Trade secret) : Not applicable

**Japan**

- 1-Propene homopolymer : Japan ENCS phase-in substance
- Additive(Trade secret) : Not applicable

## 16. OTHER INFORMATION

**1) Reference**

- Sources of information used in preparing this SDS included one or more of the following: Internal technical data, data from OECD eChemPortal, ECHA, NITE, TOXNET, IPCS and KOSHA search results.

**2) Issue Date**

- 2010-05-27

**3) Revision number and Last date revised**

**Number of revised**

- 2

**Date of last revision**

- 2022-01-14

**Last Revision History**

- This MSDS was revised in accordance with the latest revision of GHS Database.

**4) Other**

- The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the

specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.