

H680S

Division HPP680

## 1. IDENTIFICATION

### A. Product name:

H680S

### B. Recommended use of the chemical and restrictions on use:

A polyolefin plastic - For industrial conversion as a raw material for manufacture of articles or goods.

### C. Information of manufacturer, supplier:

**Company:**

SK GlobalChemical Co., Ltd

**Address:**

99, Seorin-dong, Jongro-gu, Seoul, Korea (Head Office)  
221, Expo-ro, Yuseong-gu, Daejeon, Korea (R&D)

**Emergency Telephone No:**

042-866-7614,7624,7626

## 2. HAZARD IDENTIFICATION

### A. Classification:

None : None

### B. Label element, including precautionary statements:

**Symbols:**

**Signal word(s):**

**Hazard statement(s):**

-

**Precautionary statement(s):**

 Prevention Response Storage Disposal

### C. Other hazards which do not result in classification;

NFPA Code : Health (1), Flammability (1), Reactivity (0)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	Common name,synonym	CAS number	Percentages(%)
Polypropylene	Polypropylene	9003-07-0	> 99
Additives	Additives	-	≤ 1

### 4. FIRST AID MEASURES

#### A. Eye contact:

Flush eyes thoroughly with water for 15 minutes at least.  
If effects occur, consult a physician.

#### B. Skin contact:

If molten material comes in contact with the skin, do not apply ice but cool under ice water.  
Seek medical attention immediately.

#### C. Inhalation:

Move person to fresh air; if effects occur, consult a physician.

#### D. Ingestion:

If swallowed, seek medical attention.

#### E. Most important symptoms/effect, acute and delayed:

None established

#### F. Indication of immediate medical attention and special treatment needed, if necessary:

Treatment should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES

#### A. Suitable extinguishing media:

Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Water fog or fine spray.

#### B. Specific hazards arising from the chemical:

During a fire, smoke contain the original material in addition to combustion products of varying composition which may be toxic or irritation.

#### C. Special protective equipment and precautions for firefighters:

Wear fire fighting clothing (helmet,coat,trousers,boots, and gloves).  
Keep people way.  
Cool surroundings with water to localize fire zone.

Hand held dry chemical or CO2 extinguishers may be used for small fires.

## 6. ACCIDENTAL RELEASE MEASURES

### A. Personal precautions, protective equipment and emergency procedures:

Isolate the hazard area. . Use appropriate safety equipment.  
Spilled material may cause a slipping hazard.

### B. Environmental precautions:

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

### C. Methods and materials for containment and cleaning up:

Contain spilled material if possible. Sweep up.  
Collect in suitable containers.

## 7. HANDLING AND STORAGE

### A. Precautions for safe handling:

Good housekeeping and controlling of dusts are necessary for safe handling of product.  
Dust can be ignited by static discharge.

### B. Conditions for safe storage, including incompatibilities:

Store in accordance with good manufacturing practices.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limits in the air of the workplace, biological limit values:

Not applicable

### B. Appropriate engineering controls:

Good general ventilation should be adopted.  
Local exhaust ventilation may be necessary for some operations.

### C. Individual protection measures:

#### ○ Respiratory protection:

Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present.

The following should be effective types of air-purifying respirators

- Particulate filter
- Organic vapor cartridge with a particulate pre-filter

#### ○ Eye protection:

Use safety glasses. Wear chemical goggles.  
Set up the emergency washing unit near the working area.

#### ○ Hand protection:

Use gloves with insulation for thermal protection.

○ **Body protection:**

No precautions other than clean body-covering clothing should be needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### A. Appearance (physical state, colour etc):

Pellet with white or milky color.

### B. Odour:

odorless

### C. Odour threshold:

Data not available

### D. pH:

Data not available

### E. Melting point/freezing point:

Melting point : 150 ~ 170°C,  
Freezing Point : 110 ~ 135 °C

### F. Initial boiling point and boiling range:

Not applicable

### G. Flash point:

Data not available

### H. Evaporation rate:

Not applicable

### I. Flammability(solid, gas) :

Data not available

### J. Upper/lower flammability or explosive limits:

Data not available

### K. Vapour pressure:

Not applicable

### L. Solubility(ies):

Data not available

### M. Vapour density:

Not applicable

**N. Specific gravity:**

0.90

**O. Partition coefficient: n-octanol/water:**

Not applicable

**P. Auto-ignition temperature:**

350 °C

**Q. Decomposition temperature:**

Data not available

**R. Viscosity:**

> 100 PaS at 190°C 100 1/s

## 10. STABILITY AND REACTIVITY

**A. Chemical stability:**

Stable at room temperature and atmospheric pressure.

**B. Possibility of hazardous reactivity:**

Will not occur

**C. Conditions to avoid:**

Exposure to elevated temperature. Flame. Ignition source.

**D. Incompatible materials:**

Data not available

**E. Hazardous decomposition products:**

Processing may release fumes and other decomposition products. Fumes can be irritating.

## 11. TOXICOLOGICAL INFORMATION

**A. Information on the likely routes of exposures:**

**Inhalation exposure:**

Dust inhalation May be cause cough.

**Ingestion exposure:**

Data not available

**Skin exposure:**

Data not available

**Eye exposure:**

Data not available

**B. Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Acute toxicity:**

<NLM Data>

o intraperitoneal- LD50(rat): >110000mg/kg

o intravenous- LD50(rat): 99000mg/kg

**Skin corrosion/irritation:**

Not applicable

**Serious eye damage/irritation:**

Not applicable

**Respiratory sensitization:**

Data not available

**Skin sensitization:**

Data not available

**Carcinogenicity:**

Not listed in IARC

**Germ cell mutagenicity:**

Not listed in IARC

**Reproductive toxicity:**

Not applicable

**Specific target organ systemic toxicity-single exposure:**

Not applicable

**Specific target organ systemic toxicity-repeated exposure:**

Not applicable

**Aspiration hazard:**

Not applicable

**C. Numerical measures of toxicity(such as acute toxicity estimate):**

Data not available

## 12. ECOLOGICAL INFORMATION

### A. Aquatic, terrestrial organisms toxicity:

Data not available

### B. Persistence and degradability:

Data not available

### C. Bioaccumulative potential:

Data not available

### D. Mobility in soil:

Data not available

### E. Other adverse effects:

Data not available

## 13. DISPOSAL CONSIDERATIONS

### A. Disposal methods:

All disposal practices must be in compliance with all Federal, state/provincial and local laws and regulations.

### B. Disposal considerations(Specify disposal container and methods):

Data not available

## 14. TRANSPORT INFORMATION

### A. UN Number:

Data not available

### B. UN Proper Shipping Name:

Data not available

### C. Transport hazard class(es):

Data not available

### D. Packing group, if applicable:

Data not available

### E. Environmental hazards:

Data not available

### F. Special precautions for user:

Data not available

## 15. REGULATORY INFORMATION

### A. Safety, health and environmental regulations specific for the product in question:

- 1) USA
  - CERCLA 103 (40CFR302.4) : not regulated
  - SARA 302 (40CFR355.30) : not regulated
  - SARA 304 (40CFR355.40) : not regulated
  - SARA 313 (40CFR372.65) : not regulated
  - OSHA (29CFR1910.119) : not regulated
  - California Proposition 65 : not regulated
- 2) EU
  - EC Classification : not determined
- 3) Etc
  - TSCA : not listed
  - TSCA 12(b) : not listed

## 16. OTHER INFORMATION

### A. References and sources for data:

- 1) SK Energy R&D Division
- 2) Globally Harmonized System of classification and labelling of chemical(GHS), First revised edition, United nations.
- 3) United States National Library of Medicine.
- 4) EINECS (European Inventory of Existing Commercial Chemical Substances)
- 5) IARC (International Agency for Research on Cancer)
- 6) ICSC (International Chemical Safety Cards) - ILO
- 7) Korea Occupational Safety and Health Agency

### B. Originated date:

2014.08.20

### C. Revision number and date:

Revision number : 0

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