

SAFETY DATA SHEET

Revision date: 2019-12-12

Version: BH3500(20).2

1. IDENTIFICATION

- A. Product name** : BH3500
- B. Recommended use and restriction on use**
- General use : Industrial use only
 - Restriction on use : Any use without agreement with SK global chemical
- C. Manufacturer / Supplier / Distributor information**
- Manufacturer information**
- **Company name**
SK GlobalChemical Co.,Ltd.
 - **Address**
Office) SK Bldg., 26, Jong-ro, Jongno-gu, Seoul, Korea
Plant) 2, Sinyeocheon-ro, Nam-gu, Ulsan, Korea
R&D) 325, Exporo, Yuseong-gu, Daejeon, Korea
 - **Dept.**
Safety Health Environment Team
 - **Telephone number** : -
 - **Emergency telephone number**
Plant) 82-52-208-2114
 - **Fax number** :
 - **E-mail address** :
- Supplier/Distributor information**
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2. HAZARD IDENTIFICATION

- A. GHS Classification**
- Not applicable
- B. GHS label elements**
- Hazard symbols**
- Not applicable
- Signal words**
- Not classified
- Hazard statements**
- Not applicable
- Precautionary statements**
- 1) **Prevention**
 - Not applicable
 - 2) **Response**
 - Not applicable

3) Storage

- Not applicable

4) Disposal

- Not applicable

C. Other hazards which do not result in classification : (NFPA Classification)

○ NFPA grade (0 ~ 4 level)

- Health : 1 , Flammability : 1, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	%[weight]
1-Propene polymer with ethene	Polypropylene	9010-79-1	>=99

4. FIRST AID MEASURES

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.

C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

E. Delayed and immediate effects and also chronic effects from short and long term exposure

- No data available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

B. Specific hazards arising from the chemical

- No data available

C. Special protective actions for firefighters

- Move containers from fire area, if you can do without the risk.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Ventilate closed spaces before entering.
- Move container to safe area from the leak area.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment

B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- Put the spilled material in an appropriate containers and clean the contaminated area

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Avoid contact with incompatible materials.
- Get the manual before use.
- Do not handle until all safety precautions have been read and understood.

B. Conditions for safe storage, including any incompatibilities

- Check regularly for leaks.
- Do not apply any physical shock to container.
- Avoid direct sunlight.
- Keep in the original container.
- Keep sealed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

ACGIH TLV

- No data available

OSHA PEL

- No data available

B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

C. Individual protection measures, such as personal protective equipment

Respiratory protection

- Under conditions of frequent use or heavy exposure, 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
- Air-purifying respirator with high-efficiency particulate filtering
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Eye 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.

Hand protection

- Wear appropriate glove.

Skin protection

- Wear appropriate clothing.

Others

- No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance

- Appearance : Solid
- Color : White

B. Odor : No odor

C. Odor threshold : No data available

D. pH : No data available

E. Melting point/Freezing point	: 140-170°C, 110-135°C
F. Initial Boiling Point/Boiling Ranges	: No data available
G. Flash point	: No data available
H. Evaporation rate	: No data available
I. Flammability(solid, gas)	: No data available
J. Upper/Lower Flammability or explosive limits	: No data available
K. Vapour pressure	: No data available
L. Solubility	: No data available
M. Vapour density	: No data available
N. Specific gravity(Relative density)	: 0.9
O. Partition coefficient of n-octanol/water	: No data available
P. Autoignition temperature	: >350 °C
Q. Decomposition temperature	: No data available
R. Viscosity	: upper than 100 PaS at 190°C, 100 1/s
S. Molecular weight	: No data available

10. STABILITY AND REACTIVITY

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

D. Incompatible materials

- No data available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

(Respiratory tracts)

- No data available

(Oral)

- No data available

(Eye · Skin)

- No data available

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

Acute toxicity

* Oral

- No data available

* Dermal

- No data available

* Inhalation

- No data available

Skin corrosion/irritation

- No data available

Serious eye damage/irritation

- No data available

Respiratory sensitization

- No data available

Skin sensitization

- No data available

Carcinogenicity

* IARC

- No data available

* OSHA

- No data available
- * **ACGIH**
 - No data available
- * **NTP**
 - No data available
- * **EU CLP**
 - No data available
- Germ cell mutagenicity**
 - No data available
- Reproductive toxicity**
 - No data available
- STOT-single exposure**
 - No data available
- STOT-repeated exposure**
 - No data available
- Aspiration hazard**
 - No data available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- Fish**
 - No data available
- Crustaceans**
 - No data available
- Algae**
 - No data available

B. Persistence and degradability

- Persistence**
 - No data available
- Degradability**
 - No data available

C. Bioaccumulative potential

- Bioaccumulative potential**
 - No data available
- Biodegradation**
 - No data available

D. Mobility in soil

- No data available

E. Other adverse effects

- No data available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

B. Special precautions for disposal

- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- IATA: Not a dangerous good for transportation
- IMDG: Not a dangerous good for transportation

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG CODE/IATA DGR Packing group

- Not applicable

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE :
- EmS SPILLAGE SCHEDULE :
- Air transport(IATA): Not subject to IATA regulations.

15. REGULATORY INFORMATION

A. National and/or international regulatory information **POPs Management Law**

- Not applicable

 Information of EU Classification*** Classification**

Not classified under EU CLP

 U.S. Federal regulations*** OSHA PROCESS SAFETY (29CFR1910.119)**

- Not applicable

*** CERCLA Section 103 (40CFR302.4)**

- Not applicable

*** EPCRA Section 302 (40CFR355.30)**

- Not applicable

*** EPCRA Section 304 (40CFR355.40)**

- Not applicable

*** EPCRA Section 313 (40CFR372.65)**

- Not applicable

 Rotterdam Convention listed ingredients

- Not applicable

 Stockholm Convention listed ingredients

- Not applicable

 Montreal Protocol listed ingredients

- Not applicable

16. OTHER INFORMATION

A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

B. Issue date

2015-06-11

C. Revision number and Last date revised

Revision number : 2

Last date revised : 2019-12-12

D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).