

## **MATERIAL SAFETY DATA SHEET**

### **1. IDENTIFICATION**

#### **A. PRODUCT NAME**

- ABS 750SW

#### **B. Recommended Use and Restriction on Use**

- General use : Not available
- Restriction on Use : Not available

#### **C. Information of Manufacturer**

##### **- Manufacturer**

- Company name : Korea Kumho Petrochemical Co., Ltd.
- Address : 260-257, Cheoyong-ro, Nam-Gu, Ulsan, 680-140, Korea
- Dept. : Quality Assurance Team
- Person in charge :
- Telephone number : +82-52-279-8852
- Fax number : +82-52-279-8840
- E-mail : kyoungmi@kkpc.com
- Emergency :

##### **- Supplier / distributor**

- Company name :
- Address :
- Dept. :
- Person in charge :
- Telephone number :
- Fax number :
- Emergency :

### **2. HAZARD IDENTIFICATION**

#### **A. GHS Classification : Not applicable**

#### **B. GHS label elements**

- Hazard symbols : Not applicable
- Signal word : Not applicable

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- Hazard statement : Not applicable
- Precautionary statements : Not applicable

C. Other hazards which do not result in classification :

- NFPA rating: (0~4 steps) : Health=0, Flammability=0, Reactivity=0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No./ECL No./EINECS No.	Contents(%)
Acrylonitrile-butadiene-styrene co-polymer	9003-56-9/KE-29398/-	97~100
Stabilizer	Proprietary	0~1
Lubricant	Proprietary	0~3
Acrylonitrile monomer	107-13-1/KE-29393/203-466-5	<0.1
Butadiene monomer	106-99-0/KE-3719/203-450-8	<0.1
Styrene monomer	100-42-5/KE-35342/202-851-5	<0.1

※ Reference No. : ECL(Registration number of Korean Existing Chemical List)  
EINECS(Registration number of Europe Existing Chemical List)

### 4. FIRST-AID MEASURES

A. 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 down enough to follow up.

B. 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.

C. Inhalation :

- Remove exposed person to fresh air.
- Remove victim to fresh air and keep at rest in a position comfortable.

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- Get medical attention.

D. 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.

E. Delay and immediate effects and also chronic effects from short and long term exposure : Not available

F. Notice to Physician :

- Treatment may vary with condition of victim and specifics of incident.

### **5. FIRE FIGHTING MEASURE**

A. Suitable (Unsuitable) extinguishing media :

- Extinguishing media : Carbon Dioxide, Dry Chemical, Water.
- Unsuitable Extinguishing media : Do not use direct water.
- Big Fire : Water spray, regular foam

B. Specific hazards arising from the chemical

- Combustion : Carbon monoxide, Carbon dioxide, hydrogen cyanide
- Levels of fire hazard : Not available

C. Fire fighting procedures and equipments :

- 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.

### **6. ACCIDENTAL RELEASE MEASURES**

A. Personal Precautions, Protective Equipment and Emergency procedures :

- Perform in accordance with 「 See section 8. EXPOSURE CONTROLS /

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PERSONAL PROTECTION」. Put on appropriate personal protective equipment.

- Where possible allow leak of molten material to solidify mechanical and chemical protective.
- Use a way to minimize dust.
- Avoid contact with eyes and skin.
- Avoid inhalation of substance itself or combustion.
- Evacuation against the wind.
- Avoid contact with heat, sparks, flame or other ignition sources.

### B. Environmental Precautions

- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

### C. Methods and materials for containment and 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**

### A. Handling :

- Perform in accordance with 「 See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION」. Put on appropriate personal protective equipment.
- Handle in a well-ventilated place.
- Avoid contact with heat, sparks, flame or other ignition sources.
- Remove all sources of ignition.

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- Ground all equipment.
- Wash thoroughly after handling

### B. Storage Precautionary Statements :

- Keep in original container and tightly closed.
- Avoid contact moisture.
- Avoid contact with incompatible materials.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### A. Exposure limit

- Exposure limit under ISHL : Not applicable
- ACGIH : Not applicable
- Biological exposure limits : Not applicable

### B. Engineering Controls

- A system of local and/or general exhaust is recommended when employee exposures are above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

### C. Personal Protective Equipment :

- Respiratory Protection : Use the respirator be given official approval by Korea Occupational Safety & Health Agency. 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
- Any air-purifying respirator with a corpuscle filter of high efficiency
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- ※ For Unknown Concentration or Immediately Dangerous to Life or Health
- Self-contained breathing apparatus(pressure-demand or other

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positive-pressure mode in combination)

– Supplied-air respirator with full facepiece

- Eye Protection : Wear primary eye protection such as splash resistant safety goggles with a secondary protection faceshield. Provide an emergency eye wash station and quick drench shower in the immediate work area.
- Hand 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.
- Body Protection : Wear chemical resistant protected clothing if there is hazard potential for direct contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- A. Appearance : Solid
- B. Odor : Distinctive odor
- C. Odor threshold : Not available
- D. pH : 7
- E. Melting point/Freezing point : Not applicable
- F. Initial Boiling Point/Boiling Ranges : Not applicable
- G. Flash point : 349°C(660°F)
- H. Evapourating Rate : Not applicable
- I. Flammability(solid, gas) : 1/16” HB(UL 94)
- J. Upper/Lower Flammability or explosive limits : Not available
- K. Vapour pressure : Not applicable
- L. Solubility :
  - Water : Insoluble
  - Acetone, MEK, dichloromethane: Soluble
  - Alcohol, Mineral Oil: insoluble
- M. Vapour density(Air=1) : Not applicable
- N. Relative density : 1.02~1.17
- O. Partition coefficient of n-octanol/water : Not available
- P. Autoignition Temperature : 455°C
- Q. Decomposition Temperature : Not applicable
- R. Viscosity : Not applicable
- S. Molecular weight : 50,000~200,000

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### **10. STABILITY AND REACTIVITY**

#### **A. Stability**

- This material is stable under recommended storage and handling conditions
- Decompose at 320°C on heating.

#### **B. Possibility of Hazardous Reaction**

- Will not occur.

#### **C. Conditions to Avoid**

- Avoid contact with heat.
- Avoid contact with heat, sparks, flame or other ignition sources.

#### **D. Materials to Avoid**

- Strong oxidizing agents.

#### **E. Hazardous Decomposition Products**

- Hydrogen cyanide
- Generate monomer, oxides, gas/steam, hydrocarbon, low-molecular oligomers ring, gas products when heated to high temperature.

### **11. TOXICOLOGICAL INFORMATION**

#### **A. Information on the likely routes of exposure**

- (Respiratory tracts) : Not available
- (Oral) : Not available
- (Eye · Skin) : Not available

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

- Acute toxicity : Not available
- Skin corrosion/irritation : Not available
- Serious eye damage/irritation : Not available
- Respiratory sensitization : Not available
- Skin sensitization : Not available

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- Carcinogenicity : Not available
- Germ cell mutagenicity : Not available
- Reproductive toxicity : Not available
- Specific target organ toxicity(single exposure) : Not available
- Specific target organ toxicity(repeated exposure) : Not available
- Aspiration hazard : Not available
- Chronic effect : Not available

C. Calculation the classification of the mixture(acute toxicity estimate calculation etc.) : Not applicable

### **12. ECOLOGICAL INFORMATION**

- A. Ecotoxicity : Not available
- B. Persistence and degradability : Not applicable
- C. Bioaccumulative potential : Not applicable
- D. Mobility in soil : Not available
- E. Other adverse effects : Not applicable

### **13. DISPOSAL CONSIDERATION**

- A. Disposal methods
  - The user of this product must properly characterize the waste/container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations.
- B. Special precautions for disposal :
  - The user of this product must disposal by oneself or entrust to waste disposer or person who other' s waste recycle and dispose, person who establish and

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operate waste disposal facilities.

- Dispose of waste in accordance with local regulation.

### **14. TRANSPORT INFORMATION**

A. UN number : Not regulated for transport of dangerous goods

B. Proper shipping name : Not applicable

C. Hazard class : Not applicable

D. Packing group : Not applicable

E. Marine pollutant : Not applicable

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

- 1) EmS FIRE SCHEDULE : Not applicable
- 2) EmS SPILLAGE SCHEDULE : Not applicable

### **15. REGULATORY INFORMATION**

A. Korea Industry Safety and Health Law (ISHL) :

- This product is not subject to the chemical for classification and labeling under ISHL Article 41.

B. The Toxic Chemical Control Act in Korea(TCCA)

- This product is not classified as Toxic chemical and Observational chemical under TCCA Article 2.3. and 2.4.
- Toxic Release Inventory(TRI) Chemicals: Not regulated

C. Dangerous goods Safety Management Law in Korea : Not applicable

D. US regulations

- OSHA regulation (29CFR1910.119) : Not applicable

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- 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

E. Other local or international regulation

- POPs Management Law : Not applicable
- Rotterdam Convention on Harmful Chemicals & Pesticides : Not applicable
- Stockholm Convention on Persistent Organic Pollutants : Not applicable
- Montreal Protocol on Substances That Deplete the Ozone Layer : Not applicable
- Information of EU Classification : Not available
- REACH Regulation (EC) No 1907/2006 : compliance

### **16. OTHER INFORMATION**

A. Reference

- This MSDS is prepared in accordance with ISHL Article 41 and MOL Notification No. 09-68 in Korea and consider the internal regulations by Korea Kumho Petrochemical Co., Ltd.

B. Issue date : 2010. 03. 03

C. Revision number and Last revised : 2011.12.30  
2013.11.08

D. Other information : Not available