Flame Retardant ABS/PC Compound RESIN

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: KUMHO HAC-8290NH
Generic name: Flame Retardant ABS/PC ALLOY
Chemical product name: Acrylonitrile - Butadiene – Styrene/Polycarbonate Alloy
Supplier’s name: Korea Kumho Petrochemical Co. Ltd.
Supplier’s address: 15, 16Fl. Kumho Bldg., 57, Shinmun-Ro, Chongno-Ku, Seoul 110-061 Korea
Contact: Tel. 052-279-8831  Fax 052-279-8709
Emergency Telephone: 02-6303-3314 (Head Office)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Acrylonitrile / Butadiene / Styrene   CAS No. 9003-56-9  10%~60%
Polycarbonate                   CAS No. 24836-68-3  40%~90%
Triphenyl phosphate              CAS No. 115-86-6    1~15 Parts
Antioxydants                                       0.1~0.4 Parts

3. HAZARDS IDENTIFICATION

Physical/chemical hazards : Not classified as dangerous substance
Environmental hazards : See section 11 and 12
Symptom(s) of (over)exposure
Flame Retardant ABS/PC Compound RESIN

Inhalation : Irritation
Ingestion : No hazards
Skin contact : No effects
Eye contact : Irritation

4. FIRST-AID MEASURES

Ingestion : Rinse mouth with water to remove dust, and drink plenty of water to help reduce the irritation.
Inhalation : Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.
Skin contact : Wash off in flowing water or shower.
Eye contact : Flush eyes with large amounts of water for 5 ~ 15 minutes. If irritation persists, contact a physician.

5. FIRE-FIGHTING MEASURES

Summary : Normal fire fighting procedures should be followed. To avoid inhalation of smoke and gases.

Unusual Fire/Explosion Hazards :
Extinguishing Media : Carbon dioxide, dry chemical, or foam
Flammable Properties and Explosive Limits : 1.6mm V-0,V-1,V-2(UL94 Flame Test)
Flame classification : Not determined
Flame propagation : Not determined
Flame Retardant ABS/PC Compound RESIN

Lower Explosive Limit (LEL): Not determined
Upper Explosive Limit (UEL): Not determined
Autoignition Temperature: Not determined

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Not applicable
- Environmental precautions: Not applicable
- Methods for cleaning up: Not applicable

7. HANDLING AND STORAGE

- Handling: Avoid heat
- Storage: Store in a dry, cool place, away from excessive heat

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

- Summary: Protective equipment should be provided as necessary to prevent irritation to the respiratory tract, eyes and skin.
- Eyes: Safety goggles, Dust-goggles or full-face dust-mask
- Skin and body: Usual working clothing
- Hands: Cotton gloves
- Respiratory: A respirator should be used if ventilation is unavailable.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pellets
Odor: No odor
Boiling point: Not applicable
Vapor pressure: Not applicable
Vapor density: Not applicable
Solubility in water: Insoluble
Specific gravity: 1.13 – 1.20
Melting point: 220 – 260
Evaporation rate: Not applicable
Water reactive: None

10. STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and pressures, at over 300 release gases
Reactivity: Not reactive
Conditions to avoid: Heat, flame and other sources of ignition
Materials to avoid: Oxidizing agents
Hazardous decomposition: Burning may produce carbon dioxide and carbon monoxide
KOREA KUMHO PETROCHEMICAL CO., LTD.  
Material Safety Data Sheet

Flame Retardant ABS/PC Compound  RESIN

11. TOXICOLOGICAL INFORMATION

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<tbody>
<tr>
<td>LD50</td>
<td>Not determined</td>
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<tr>
<td>LC50</td>
<td>Not determined</td>
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<tr>
<td>Eye irritation</td>
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<td>Skin irritation</td>
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<td>Chronic toxicity</td>
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12. ECOLOGICAL INFORMATION

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<tr>
<td>Ecotoxicity</td>
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<tr>
<td>Persistence and degradability</td>
<td>No degradation</td>
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13. DISPOSAL CONSIDERATIONS

Methods of disposal: Bury in landfill or burn in adequate incinerator, In accordance with national and local regulations

14. TRANSPORT INFORMATION

This product is not regulated as a hazardous material for transport

Sea: Free for any transport

Air: Free for any transport
Flame Retardant ABS/PC Compound  RESIN

15. REGULATORY INFORMATION

Regulations : Not related

16. OTHER INFORMATION

Special precautions to be taken in handling and storage : Practice reasonable care and Caution in the handling of this product. Avoid breathing dust if generated.