ABS RESIN

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

Product name : KUMHO ABS
Generic name : ABS Graft Copolymer
Chemical product name : Acrylonitrile - Butadiene - Styrene
CAS no. : 9003-56-9
Supplier’s name : Korea Kumho Petrochemical Co. Ltd.
Supplier’s address : 15, 16Fl. Kumho Bldg., 57, Shinmun-Ro Chongnnno-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
Acrylonitrile / Styrene  CAS No. 9003-54-7
Tallow  CAS No. 8030-12-4
Wax  CAS No. 110-30-5

3. HAZARDS IDENTIFICATION

Physical/chemical hazards : Not classified as dangerous substance
Environmental hazards : See section 11 and 12
Symptom(s) of (over)exposure
ABS 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 : Flash point: 350
Flame classification : Not determined
Flame propagation : Not determined

KUMHO
ABS RESIN

Lower Explosive Limit (LEL) : Not determined
Upper Explosive Limit (UEL) : Not determined
Autoignition Temperature : 455

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/PERSONAL 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.
ABS RESIN

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**: 1.04 – 1.10
- **Melting point**: 180 – 200
- **Evaporation rate**: Not applicable
- **Water reactive**: None

10. STABILITY AND REACTIVITY

- **Stability**: Stable at normal temperatures and pressures
- **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
ABS RESIN

11. TOXICOLOGICAL INFORMATION

LD50 : Not determined
LC50 : Not determined
Eye irritation : Not determined
Skin irritation : Not determined
Chronic toxicity : Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity : Not determined
Persistence and degradability : No degradation

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
ABS 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.