TLC Korea	Safety Data Sheet (SDS)	Date of Issue: 2015. 12. 12
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	Advanced ABS (AABS)	

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Product (Trade) Name: Advanced ABS (AABS)

Company Identification: **TLC KOREA Co. Ltd.**
74 Makgol-gil, Hojeo-Myeon,
Wonju City, Gangwon-Do, Korea
Post Code: 220-926

Emergency Telephone & Fax Numbers: Tel: +82-33-732-9157
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2. COMPOSITION / INFORMATION ON INGREDIENT

2-1 COMMON CHEMICAL NAME: ABS

2-2 Mixtures

Name	CAS No.	REACH No.	%(weight)
2-Propenenitril polymer with 1.3-Butadiene and ethenylbenzene	9003-56-9	-	90~100
Secret	Secret	-	1~10

3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Skin Contact

- No evidence of harmful effects from available information

Skin Absorption

- No evidence of harmful effects from available information

Eye Contact

- No evidence of harmful effects from available information

Inhalation

- Short-term harmful health effects are not expected from vapor generated at ambient temperature

4. FIRST AID MEASURES

Eye Contact

- Flush eyes thoroughly with water for at least 15 minutes and remove contact lenses if worn.

Skin Contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes

Inhalation

- Move to fresh air when exposed to large amounts of steam and mist

Ingestion

- Rinse mouth with water immediately and take advice of a doctor/physician

5. FIRE FIGHTING MEASURES

Fire Fighting Guidance

- Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire
- Move containers from fire area if you can do this without risk
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank
- Use appropriate extinguishing measure suitable for surrounding fire
- Keep containers cool with water spray

Extinguishing Media

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment: Wear proper protective equipment
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to applicable regulations

6.1.2. For emergency responders

- Do not touch spilled material. Stop leak if you can do it without risk
- Remove all sources of ignition
- Handling the damaged containers or spilled material after wearing protective equipment

6.1.3. Other information

- Notification to central or local government when emission at least of the standard amount
- Slippery when spilt

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Since emptied containers retain product residue (vapor, liquid, solid) follow all MSDS warnings even after container is emptied
- Refer to Engineering controls and personal protective equipment
- Dealing only in a well-ventilated place
- Operators should wear antistatic footwear and clothing
- Wash thoroughly after handling

7.2 Safe storage and incompatibilities

- Check regularly for leaks
- Prevent static electricity and keep away from combustible materials or heat sources
- Store in a dry/cool place

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Exposure controls

- A system of local and/or general exhaust is recommended to keep employee exposures 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.

8.2 Individual protection measures, such as personal protective equipment

Hand Protection

- Wear appropriate gloves

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

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
- Any air-purifying respirator with a corpuscle filter of high efficiency
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency

Skin Protection

- Wear appropriate clothing

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance (State):	Solid (Pellets)
Appearance (Color):	Slightly yellow
Odor:	Not available
Freezing Point:	Not determined
Relative Density:	1.02~1.08g/㎖

Melting Point: 210~240℃
Flashy Point: Not available
Solubility: Not available

10. STABILITY AND REACTIVITY

Reactivity: Not available
Chemical Stability: Stable under recommended storage and handling conditions
Hazardous Reactions: Hazardous polymerization will not occur
Conditions to avoid:

- Avoid contact with incompatible material and condition
- Avoid accumulation of electrostatic charges, heating, flames and hot surfaces

11. TOXICOLOGICAL INFORMATION

11-1 Acute toxicity
Oral

- Not available

Dermal

- Not available

Inhalation

- Not available

11-2 Eye corrosion/irritation

- Not available

11-3 Skin sensitization

- Not available

11-4 Mutagenicity

- Not available

11-5 Reproductive toxicity

- Not available

11-6 Aspiration hazard

- Not available

11-7 Carcinogenicity

- Not available

11-8 Respiratory sensitization

- Not available

12. ECOLOGICAL INFORMATION

12-1 Fish

- (2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene):
  LC50 11.5mg/ℓ 96hr Primephales promelas
- Not available

12-2 Invertebrate

- Not available

12-3 Algae

- Not available

12-4 **Bioaccumulative potential**

Bioaccumulation

- Not available

Biodegradability

- Not available

13. DISPOSAL CONSIDERATIONS

13-1 WASTE DISPOSAL METHOD

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, 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
- The user of this product must dispose by oneself or entrust to waste disposer or person, who recycle and dispose other's waste, person, who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Land, Sea and Air transport

- Not-regulated

15. REGULATORY INFORMATION

15-1 Safety, health and environmental regulation / legislation specific for the substance / mixture

REACH Restricted substance under REACH

- Not applicable

REACH Substances subject to authorization under REACH

- Not applicable

REACH SVHC

- Not applicable

Europe PBT

- Not applicable

EU classification<Regulation(EC)No 1272/2008 Annex VI Table 3.1>

- Not applicable

EU classification<Regulation(EC)No 1272/2008 Annex VI Table 3.2>

- Not applicable

Aquatic ecotoxicity(R50/53)

- Not applicable

16. OTHER INFORMATION

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered
- This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only
- It should not therefore be construed as guaranteeing any specific property of the product
- When process AABS resin after more than 1 year of storage, re-dry before processing.