

SAFETY DATA SHEET

Finished product

AsahiKASEI

Date Prepared : 03/26/2015

SDS No : D5

1. PRODUCT AND COMPANY IDENTIFICATION**GENERAL USE:** Injection Molding**PRODUCT DESCRIPTION:** Acrylonitrile-Butadiene Styrene Copolymer**PRODUCT CODE:** D-9900-0100-40103**GENERIC NAME:** ABS**MANUFACTURER**

Asahi Kasei Plastics North America
Asahi Kasei Chemical Co.
900 E. Van Riper
Fowlerville, MI 48836

Emergency Contact: Product Stewardship**Emergency Phone:** 8004444408**Alternate Emergency Phone:** 5172235323**Customer Service:** 517-223-5352**E-Mail:** www.akplastics.com**24 HR. EMERGENCY TELEPHONE NUMBERS****Poison Control Center (Medical) :** (877) 800-5553**CANUTEC (Canadian Transportation) :** (613) 996-6666**CHEMTREC (US Transportation) :** (800) 424-9300**COMMENTS:** Restrictions on use: Please do not use our product for the following:

Medical containers/packaging/equipment/parts of in-vivo, or which contact mucosa, body fluid, blood, chemical solution.

Equipment, parts which contact with food containers/ packaging/equipment or drinking water.

Toys which may contact with mouth, drinking water, etc

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATIONS**

Combustible Dust, : This product as shipped is not classified as a combustible dust: however, a combustible concentration of dust may occur if fines are suspended in air (e.g. from cutting or sanding).

GHS LABEL

OSHA Hazard Category: Combustible Dust

GHS Hazard Category: Not Classified

SIGNAL WORD: WARNING**EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Granular solid. Pellets. Powder or Flakes**IMMEDIATE CONCERNS:** None Expected.**POTENTIAL HEALTH EFFECTS****EYES:** Irritation due to mechanical irritation. Heated material can cause thermal burns. If heated smoke can emit irritating fumes.**SKIN:** No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.**SKIN ABSORPTION:** None expected. May cause choking if swallowed.**INGESTION:** Ingestion may cause irritation to gastrointestinal tract.

INHALATION: Dust or vapor irritating to eyes and respiratory tract.

CARCINOGENICITY: No data available. Contact Env. Dept.

MUTAGENICITY: None expected. May cause choking if swallowed.

TARGET ORGAN STATEMENT: None Expected.

CANCER STATEMENT: No

WARNING CAUTION LABELS: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Acrylonitrile-Butadiene Styrene Copolymer	~ 90 - 100	9003-56-9
Additives	0-5%	confidential
Colorants	0-3%	confidential

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN: For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the flesh can be easily torn.

INGESTION: Induce vomiting. Rinse mouth with water. Seek Medical advice if necessary.

INHALATION: If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or watering

SKIN: Contact causes skin irritation.

SKIN ABSORPTION: None Expected.

INGESTION: Upset stomach

INHALATION: Irritation of the throat, or coughing

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, foam, or dry chemical

EXPLOSION HAZARDS: Dusts at sufficient concentrations can form explosive mixtures with air.

FIRE FIGHTING EQUIPMENT: Should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

SENSITIVE TO STATIC DISCHARGE: Combustion Energy: 3.35×10^7 J/kg

HAZARDOUS DECOMPOSITION PRODUCTS: CO, HCN, AN, SM, NO

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: Vacuum or sweep up material and place in designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Keep out of water ways and storm sewers.

AIR SPILL: Inadequate incineration / decomposition may generate toxic gases such as CO,HCN,AN,and SM.

GENERAL PROCEDURES: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air.

7. HANDLING AND STORAGE

HANDLING: Prevent from fire around handling area. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from existence of powder, ensure grounding of equipment, bag filters, and hoppers.

STORAGE: Keep material in cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation.

SHELF LIFE: Recommend to use within 2 years, please consult processing documentation

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Colorants	TWA		15 T		10	NL	NL
	STEL					NL	NL

ENGINEERING CONTROLS: Use local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. Eliminate ignition sources in areas where dust could be generated. Ensure that dust handling systems are designed in a manner to prevent the escape of dust into work area. It is recommended that all dust control equipment such as local exhaust ventilation contain explosion relief vents or an explosion suppression system.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses for general use. Wear chemical goggles for cleaning mold machines.

SKIN: Cold or room temp. material: None required. However protective clothing is a good industrial practice.

Hot material: Wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.

RESPIRATORY: Wear respirator when cleaning molding machine due to possible vapors.

PROTECTIVE CLOTHING: Standard industry clothing is recommended.

WORK HYGIENIC PRACTICES: Wash hands after handling, before eating, smoking, using the lavatory, and at the end of the day.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Granular solid. Pellets. Powder or Flakes

ODOR: Faint to strong

COLOR: Red

FLASH POINT AND METHOD: > 404°C

AUTOIGNITION TEMPERATURE: > 466°C

MELTING POINT: > 100°C

SOLUBILITY IN WATER: Insoluble in water

EVAPORATION RATE: NA = Not Applicable

SPECIFIC GRAVITY: ~ 1.03 to 1.10

10. STABILITY AND REACTIVITY

REACTIVITY: Stable and non-reactive under normal handling and storage conditions.

CONDITIONS TO AVOID: Fire

HAZARDOUS DECOMPOSITION PRODUCTS: Harmful vapors: CO, HCN, AN, and SM

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Fumes or vapors generated from decomposing resin may be irritant to eyes

SKIN EFFECTS: None expected. May cause choking if swallowed.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Wildlife may ingest plastic pellets. Although not toxic, such materials may physically block the digestive system, causing starvation of death.

ECOTOXICOLOGICAL INFORMATION: Not yet Determined

BIOACCUMULATION/ACCUMULATION: Not yet Determined

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose according to local, state, and federal laws and regulations. Inadequate incineration may generate toxic gases.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

U.S. SURFACE FREIGHT CLASS: 156200 Class 60

OTHER SHIPPING INFORMATION: Not regulated - Not classified as hazardous for transport

U.S. CUSTOMS HARMONIZATION NUMBER: 3903.30

SPECIAL SHIPPING NOTES: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of a spill.

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Acrylonitrile-Butadiene Styrene Copolymer	9003-56-9
Additives	confidential
Colorants	confidential

TSCA REGULATORY: All ingredients are listed in TSCA inventory

16. OTHER INFORMATION

REASON FOR ISSUE: GHS SDS format

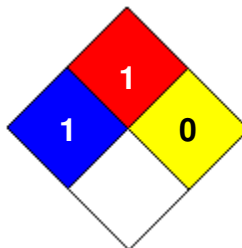
APPROVED BY: Product Stewardship

PREPARED BY: Product Stewardship Date Prepared: 03/26/2015

INFORMATION CONTACT: 517-223-5000

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES

DATA SOURCES: SDS provided by Suppliers and common industry information

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