SAFETY DATA SHEET

ABS 35

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SECTION 1: IDENTIFICATION

	ABS Acrylonitrile, Butadiene, Styrene May be used to produce molded or extruded articles or as a component of other industrial products.
Manufacturer:	Star Plastics, Inc. 326 Jack Burlingame Drive Millwood, West Virginia 25262, USA StarPlastics.com Phone: 304.273.0352 (24 Hours) Fax: 304.273.0355
Emergency telephone number:	304.273.5326 (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications: Pictograms:	Use Appendices to 1910.1200 to determine Hazard Classification.
Signal Word:	Warning
Hazard Statements:	Spilled pellets create slipping hazard.
Precautionary Statements:	Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation.
Other Hazards not Otherwise	
Classified:	Pellet inhalation unlikely due to physical form.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical/Component Name Acrylonitrile Butadiene Styrene for codes containing high black content	CAS Number 107-13-1 106-99-0 100-42-5	Weight %
Carbon Black for codes containing high white content	1333-86-4	
Titanium Dioxide	13463-67-7	

SECTION 4: FIRST-AID MEASURES

Inhalation:	Fume inhalation: Leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms develop at a later time.
Eye Contact:	Flush immediately with large amounts of water for at least 15 minutes. If irritation persists, call medical support.
Skin Contact:	For skin contact with fume condensate, immediately wash thoroughly with soap and water. If irritation develops seek medical attention.
Ingestion:	Not probable.
Most important symptoms/effects: Indication of immediate	
medical treatment:	

SECTION 5: FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Dry chemical, water spray, carbon dioxide, foam, water fog or
Extinguishing Media:	spray.
Specific Hazards arising	Hazardous combustion products may include intense heat, dense
from the chemical:	black smoke, carbon monoxide, carbon dioxide and hydrocarbon
	fragments.
Special protective	Wear NIOSH/MSHA approved SCBA and full protective equipment.
equipment and precautions	
	The fuel content and temperatures will require immediate attention
-	and vigorous efforts to bring about control of the fire, and
	suppression of the fire should begin immediately. The plastic will
	melt, but it will not be carried on the surface of the water, and water
	can be freely used to control the fire. Use a water spray to cool
	fire-exposed containers, and to solidify. Do not release runoff from
	fire control methods to sewers or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions/protective equipment/emergency procedures:

Methods/materials for containment & clean-up:	Pellets: Remove from all floor areas to allow for stable footing and preventing slips by personnel. Soil: Collect for re-use or appropriate disposal. Solids can be separated.
	Water: Notification of government agency may be appropriate.
	Air: Not likely to be released.

SECTION 7: HANDLING AND STORAGE

Precautions for Secondary operations such as grinding, sanding or sawing may produce a dust Safe Handling: explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices. Conditions for Avoid storing containers near foodstuffs due to possibility of odor and taste

contamination of food. Safe Storage:

Do not store containers near heating devices, hot pipes, etc.

Store in a dry place away from moisture, excessive heat and sources of ignition.

Read and become familiar with all labels and instructions of packaging.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL/ACGIH/TLV:			
	OSHA PEL (TWA)	STEL	Ceiling
Acrylonitrile	2 ppm	10 ppm	
Butadiene	1 ppm	5 ppm	
Styrene	100 ppm		200 ppm
for codes containing high black content			
Carbon Black	3.5 mg/m ³		
for codes containing high white content			
Titanium Dioxide	15 mg/m ³		
Appropriate Engineering Recommended, sufficient ventilation to control fumes.			

Recommended, sufficient ventilation to control turnes. Appropriate Engineering

Controls: Individual Protection Measures: Respiratory Protection:	Under conditions of excessive fume concentration, a NIOSH/MSHA approved device with organic vapor acid gas rating or fresh air supply should be used. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. <i>Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</i> If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient,
Hand Protection:	sanitary storage areas. Wear gloves that will prohibit penetration when handling hot plastic.
Eye Protection: Other Protective Equipment: Work Hygienic Practices:	ANSI approved safety glasses or chemical workers goggles. Ordinary work clothes. Wash hands with soap and water before eating or smoking and at the end of each work day.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Solid	Explosive Limits:	N/A
Odor:	Faint	Vapor Pressure:	Negligible
Odor Threshold:	N/A	Vapor Density:	Unknown
pH:	N/A	Relative Density:	Unknown
	This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.	Solubility:	Insoluble
Boiling Point/Range:	Unknown	Other Solubility:	Unknown

Flash Point:	Unknown
Evaporation Rate:	N/A
Flammability	N/A
(solid, gas):	
Viscosity:	N/A

Partition Coefficient:	Unknown
Auto-Ignition Temp:	Unknown
Decomposition Temp:	Unknown
UEL/LEL:	Unknown

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not reactive under recommended conditions of handling, storage, processing and use.
Chemical Stability:	Stable under recommended conditions of storage and handling.
Possibility of Hazardous Reactions:	
Conditions to Avoid:	Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water.
Incompatible Materials:	
Hazardous Decomposition of Products:	Processing fumes evolved at recommended processing conditions contain trace levels of styrene monomer, ammonia, acrylamide, aromatic and aliphatic hydrocarbon fragments and CO.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Inhalation, skin, ingestion	
Product may cause irritation or injury due to mechanical action.	
Pellets not likely to cause skin irritation.	
Molten plastic can cause severe thermal burns.	
Not acutely toxic.	
Pellet inhalation unlikely due to physical form.	
Fumes produced during melt processing may cause eye, skin and respiratory tract irritation.	
Acute Effects: Fumes produced during melt process of plastics may produce acute health effects in some individuals, especially irritation of eyes/nose and throat in cases of severe overexposure, nausea and headaches. Fumes emitted from hot plastic during conversion may condense on cool overhead metal surfaces/structures.	

Chronic Effects: No known

Numerical Measures of Toxicity: Carcinogenicity: Ad

Acrylonitrile: IARC Group 2A, NTP anticipated to be a carcinogen, ACGIH Group A2, OSHA regulates styrene: IARC Group 2B. OSHA, IARC and NTP have listed carbon black as carcinogen. Titanium Dioxide has been identified as a suspected or confirmed human carcinogen. OSHA, IARC and/or NTP have listed heavy metals, present in some colorants as carcinogens. These colorants are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

- Ecotoxicity: N/A
- Persistence and degradability: N/A
 - Bioaccumulation potential: N/A
 - Mobility in soil: N/A
 - Other adverse effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Landfill waste plastic if codes permit/incinerate if codes and equipment permit. Incinerating equipment should be capable of handling large volumes of dense, black smoke and withstand effects of acid gases. Pellet materials not considered hazardous waste.

SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)

- UN Number: N/A
- **UN Proper Shipping Name:** N/A
- Transport Hazard Class(es): N/A
- Packing Group, if applicable: N/A
- Environmental hazards (eg, Marine pollutant): N/A
- Transport in Bulk (according to Annex II of MARPOL 73/78 N/A

and the IBC Code): Special Precautions which a user needs to be aware of, or N/A needs to comply with, in connection with transport of conveyance either within or outside their premises.: DOT Transportation Data: 49 CFR 172.101

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

Safety, Health and Environmental Regulations specific for the product in question.

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified
CERCLA Hazardous Substance (40 CFR 302.4) Unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)
OSHA Regulations:
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance: Not listed.

State Regulations:

California Proposition 65:



WARNING: This product can expose you to chemicals: Acylonitrile (CAS# 107-13-1), Butadiene (CAS# 106-99-0), Styrene (CAS# 100-42-5) which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm.

For more information go to <u>www.P65Warnings.ca.gov</u>.

Listed on the active section of the TSCA Inventory

SECTION 16: OTHER INFORMATION

Prepared By: Star Plastics, Inc **Date of Preparation**: 11/19/2013 **Revision**: 01

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.