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**MATERIAL SAFETY DATA SHEET**
**ACRYLONITRILE BUTADIENE STYRENE (ABS)**
**TYPE GENERAL PURPOSE**
**SECTION 1 – Chemical Product Identification**

<b>PRODUCT IDENTIFIER:</b>	
<b>CHEMICAL NAME</b>	Acrylonitrile Butadiene Styrene
<b>TRADE NAME</b>	PORENE
<b>GRADES APPLICABLE</b>	GA850/GA800, MH-1, GA300, GA400, SP100, SP200, SR101, AP102
<b>SYNONYMS</b>	ABS, ABS resin, Kralastic
<b>CHEMICAL FAMILY</b>	Thermoplastic polymer
<b>FORMULA</b>	$(C_3 - H_3 - N)_n (C_4 - H_6)_n (C_8 - H_8)_n$
<b>PRODUCT USE:</b>	Can be used to produce injection or extrusion molded articles for commercial or industrial products.

**SECTION 2 – Composition/Information on Ingredients**

<b>Base Resin:</b>	<b>CAS Registry Number:</b>
Acrylonitrile-butadiene-styrene copolymer	9003-56-9
<b>Additives</b>	N/A

Product contains high molecular weight polymers, and is not expected to be chemically active under normal conditions of handling and processing.

**SECTION 3 – Hazards Identification**
**EMERGENCY OVERVIEW**

Molten material can cause thermal burns. May be an irritant to eye, skin, and respiratory tract when processed at high temperatures.

**THRESHOLD LIMIT VALUE**

N.E.

<b><u>ACUTE EFFECTS OF OVEREXPOSURE</u></b>	Negligible hazard at room temperature. Irritation vapors to respiratory system may form when polymer is processed at high temperatures.
INHALATION	
SKIN CONTACT & ABSORPTION	Molten or heated material when in contact with skin can cause severe thermal burns. Cold material is not expected to be hazardous to the skin.
EYE CONTACT	Irritating vapors may be formed when polymer is processed at high temperatures. Thermal burns from hot material can occur.
INGESTION	No effects are expected for ingestion of small amounts. May cause gastric disturbances.
<b>SECTION 4 – First Aid Measures</b>	
<b><u>EMERGENCY FIRST AID PROCEDURES</u></b>	
INHALATION	Remove person to fresh air. Seek medical attention.
SKIN CONTACT & ABSORPTION	For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water.
EYE CONTACT	Flush with water for at least 20 minutes. Seek medical attention if irritation persists.
INGESTION	No first aid procedures are required. Seek medical attention if a significant amount is swallowed.
<b>SECTION 5 – Fire Fighting Measures</b>	
<b><u>FLAMMABILITY:</u></b> MEANS OF EXTINCTION	Dry chemicals, foam, water, carbon dioxide, and halon. Do not use water jets for large fires.
FLASH POINT	349°C
FLAMMABLE LIMITS	Upper and lower values N.E.
AUTO-IGNITION TEMPERATURE:	>400°C
EXPLOSION DATA	Accumulation of fines can create a dust explosion.
HAZARDOUS COMBUSTION PRODUCTS	Carbon dioxide, carbon monoxide, traces of hydrogen cyanide and hydrocarbon fragments. Fire may produce irritation gases and dense smoke.

<b>SECTION 6 – Accidental Release Measures</b>	
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>	Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.
<b>SECTION 7 – Handling and Storage</b>	
<b>HANDLING PROCEDURES AND EQUIPMENT</b>	Do not handle material without proper protective equipment. Provide adequate ventilation. Maintain good housekeeping in work areas.
<b>STORAGE REQUIREMENTS</b>	Store in a cool, dry place in the original container when possible. Store below 50°C Keep away from moisture, excessive heat and sources of ignition. Do not place in direct sunlight.
<b>SECTION 8 – Exposure Control/ Personal Protection</b>	
<p><b>EXPOSURE LIMITS: Styrene</b>  ACGIH TLV      TWA 20 ppm; STEL 40ppm  OSHA PEL      TWA 100 ppm; CLV 200 ppm; maximum concentration 600 ppm</p> <p><b>EXPOSURE CONTROL</b>  Ventilation, enclosures, or other controls may be needed to keep airborne contaminants below exposure limits.</p> <p><b>PERSONAL PROTECTIVE EQUIPMENT:</b>  <b>RESPIRATORY PROTECTION</b>  Wear respiratory protection if ventilation is inadequate. Breathing protection if dust is formed.  <b>EYE PROTECTION</b>  Chemical workers' goggles recommended.  <b>PROTECTIVE CLOTHING</b>  Gloves required when handling hot material. In case of fire, wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.  <b>VENTILATION</b>  Provide adequate ventilation when processing material at elevated temperatures.  <b>OTHER PROTECTIVE EQUIPMENT</b>  N.A.P.</p>	
<b>SECTION 9 – Physical and Chemical Properties</b>	
<b>PHYSICAL STATE:</b>	Solid.
<b>ODOR AND APPEARANCE:</b>	Plastic pellets in natural or compounded color with characteristic odor.



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<b>SECTION 13 – Disposal Considerations</b>
TRANSFER TO AN APPROVED DISPOSAL AREA IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL REGULATIONS. RECYCLING UNCONTAMINATED PACKAGING RECOMMENDED.
<b>SECTION 14 – Transport Information</b>
Not Regulated (USA). Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSeeICAO/IATA).
<b>SECTION 15 – Regulatory Information</b>
Material is not regulated by D.O.T. Material is not hazardous by OSHA Hazardous Communication Standard 29 CFR 1910.1200. Material is in the TSCA Inventory. Material is not subject to SARA 313 reporting requirements. Hazard Material Information System (USA) Health – 0, Flammability – 1, Reactivity – 0. National Fire Protection Association (USA) Health – 0, Flammability – 1, Reactivity – 0. Material is not controlled under WHMIS (Canada). Material is not listed in EINECS. Material is not controlled under DSCL (EEC). Material does not require a hazard-warning label by EC Directives (EU).
<b>SECTION 16 – Other Information</b>
LEGAL DISCLAIMER: WHILE THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, AND DISPOSAL, AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISKS INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
N.E. = NOT ESTABLISHED, N.AP. = NOT APPLICABLE, N.A.V. = NOT AVAILABLE T.C. = LIST TOXIC CHEMICAL UNDER SEC. 313 OF TITLE III OF SARA 1986