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MATERIAL SAFETY DATA SHEET

ABS

TYPE FLAME RETARDANT

SECTION I

CHEMICAL NAME	ACRYLONITRILE-BUTADIENE-STYRENE RESIN
TRADE NAME	PORENE
SYNONYMS	ABS
CHEMICAL FAMILY	THERMOPLASTIC RESIN
MOLECULAR WEIGHT	NOT DETERMINED
FORMULA	$(C_{23}H_{20}N)^n$
CAS REGISTRY NO.	9003-56-9

SECTION II - INGREDIENTS

NAME	%	TLV	HAZARDOUS PROPERTY
STYRENE	>45		*The vapors are irritating to eyes and mucous membranes. Inhalation of high concentration can cause unconsciousness and death. **Further exposure in irritation of the eyes photophobia, irritation of the nose, deepened respiration..
POLYBUTADIENE	<15	*1000ppm	
ACRYLONITRILE	<15	*2000ppm	
FLAME RETARDANT	<20		
OTHERS	<15		

SECTION III - PHYSICAL DATA

BOILING POINT (°C)	—	ODOR	N/A
MELTING POINT (°C)	—	pH	N/A
SPECIFIC GRAVITY	1.2-1.3	VAPOR DENSITY	N/A
SOLUBILITY IN WATER	INSOLUBLE		
APPEARANCE	PELLET		
VAPOR PRESSURE mm Hg AT 20°C	N/A		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C)	N/A	AUTOIGNITION TEMPERATURE	N/A
FLAMMABILITY LIMIT IN AIR (% BY VOL)		Lower	N/A
		Upper	N/A
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters must be equipped with self-contained breathing apparatus and turn out gear.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	If exposed to fire, high heat will be developed and heavy black smoke will result. During combustion carbon dioxide will be produced.		

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	SEE SECTION II
EFFECT OF OVEREXPOSURE	N/A

FIRST AID PROCEDURES

EYES FLUSH WITH FLOWING WATER AT LEAST 15 MINUTES	If eyes or skin irritation persists, consult a physician. Wash contaminated skin area with soap and water If vapors are inhaled, move to fresh air. Aid in breathing if necessary And consult a physician.
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SECTION VI – REACTIVITY DATA

STABILITY	STABLE	X	CONDITION TO AVOID: _____
	UNSTABLE		
CHEMICAL INCOMPATIBILITY	AVOID INORGANIC AND ORGANIC SOLVENTS.		
HAZARDOUS DECOMPOSITION PRODUCT	CO, CO ₂ , NO ₂		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITION TO AVOID: NONE
	DOES NOT OCCUR	X	
CORROSIVE TO METAL	No.	OXIDE No.	

SECTION VII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Approved organic vapor or dust respirator, as necessary,. If there is not adequate ventilation throughout, storage and processing areas.	
VENTILATION	Local Exhaust Mechanical (General)	As necessary to Control to P.E.L.
EYE PROTECTION	Chemical workers goggles recommended	
PROTECTIVE CLOTHING	Clean, Body-covering clothing, protective gloves optional.	

SECTION VIII – ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA N/A	
SPILLED AND LEAK PROCEDURES FOR DISPOSAL	SPILL SHOULD BE CONTAINED AND PLACED IN SUITABLE CONTAINERS
HAZARDOUS SUBSTANCE	40CFR 261 No.
WASTE DISPOSAL METHOD	INCINERATE OR BURRY AS A SOLID IN A LICENSED FACILITY DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS.
HAZARDOUS SUBSTANCE	40CFR 261 No.
CONTAINER DISPOSAL	DISPOSE OF IN LICENSED FACILITY. RECOMMEND INCINERATION OR OTHER MEANS TO PREVENT UNAUTHORIZED REUSE.