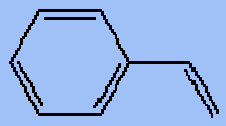
STYRENE MONOMER



PRODUCT IDENTIFICATION	
CAS NO.	100-42-5
EINECS NO.	202-851-5
FORMULA	$H_2C=C_6H_5CH$
MOL WT.	104.15
H.S. CODE	2902.50
TOXICITY	Oral rat LD50: 2650 mg/kg
SYNONYMS	Vinyl benzene; Stryrene; Cinnamenol; Cinnamol; Cinnamene; Cinnamenol; Ethenylbenzene; Phenethylene; Vinylbenzene; Vinylbenzol; Phenylethene; Stirolo (Italian); Styreen (Dutch); Styren (Czech); Styrol (German); Styrolene; Styron; Styropol; Styropor; Vinylbenzen (Dutch);
DERIVATION	
CLASSIFICATION	

GENERAL DESCRIPTION

Styrene Monomer is the raw material for polystyrene and EPS, accounting for approximately two thirds of total styrene monomer production. The remaining styrene monomer is used as a feedstock in the production of SAN, ABS and the unsaturated polyester resins, SBR and polymer latex. Major downstream styrene markets (polystyrene and ABS) are under pressure as a result of oversupply and interpolymer competition, although rationalization of older, smaller styrenics units should help balance out the market.

PHYSICAL AND CHEMICAL PROPERTIES	
PHYSICAL STATE	Clear liquid
MELTING POINT	-30 - 31 C
BOILING POINT	145 - 146 C
SPECIFIC GRAVITY	0.91
SOLUBILITY IN WATER	< 1%
pH	7
VAPOR DENSITY	3.60
AUTOIGNITION	
NFPA RATINGS	Health: 2; Flammability: 3; Reactivity: 2
REFRACTIVE INDEX	1.5470
FLASH POINT	
STABILITY	Stable under ordinary conditions. But forming peroxides in the absence of inhibitors.

APPLICATIONS

Polystyrene, ABS resins, SB latex,unsaturated polyester resins, SB rubber, thermoplastic elastomers ,styrene-butadiene, styrene-maleic styrene-acrylic ester copolymers.

SALES SPECIFICATION	
APPEARANCE	Clear liquid
PURITY	99.7% min [G.C.]
POLYMER	10ppm max [ASTM D-2121]
CHLORIDES	1ppm max [ASTM D-2747]
SULFUR	1ppm max [ASTM D-2747]
COLOR, APHA	10max [ASTM D-1209]
BENZALDEHYDE	100ppm max [ASTM D2119]
H2O2	50ppm max [ASTM D2340]

INHIBITOR(TBC)	10 - 20ppm max [Badger Method 8]
TRANSPORTATION	
PACKING	180kgs in drum
HAZARD CLASS	Not regulated
UN NO.	
OTHER INFORMATION	
Hazard Symbols: XN, Risk Phrases: 10-36/38-20-23	