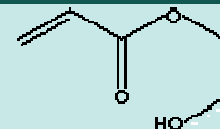


HYDROXYETHYL ACRYLATE

PRODUCT IDENTIFICATION

CAS NO.	818-61-1
EINECS NO.	212-454-9
FORMULA	$\text{H}_2\text{C}=\text{CHCO}_2\text{CH}_2\text{CH}_2\text{OH}$
MOL WT.	116.12



H.S. CODE

TOXICITY Oral rat LD50: 540 mg/kg

SYNONYMS Ethylene Glycol, Acrylate; 2-Hydroxyethyl Acrylate; Ethylene glycol monoacrylate; HEA; 2-Propenoic acid 2-hydroxyethyl ester; Acrylic acid, 2-hydroxyethyl ester; 2-(Acryloyloxy)ethanol; 2-Propenoic acid, 2-hydroxyethyl ester;

DERIVATION

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Clear liquid

MELTING POINT -30 C

BOILING POINT 190 - 192 C

SPECIFIC GRAVITY 1.11

SOLUBILITY IN WATER miscible

pH

VAPOR DENSITY

AUTOIGNITION

NFPA RATINGS Health: 2; Flammability: 1; Reactivity: 1

REFRACTIVE INDEX

FLASH POINT 101 C

STABILITY The stability depends upon dissolved oxygen and MEHQ inhibitor. The presence of oxygen is necessary for inhibitor to prevent polymerization.

APPLICATIONS

Hydroxyethyl Acrylate gives hydroxyl functional groups to an acrylic polymer backbone. The hydroxyl groups act as crosslinking sites for hydrophilicity, improving adhesion and resistance against corrosion, fogging and abrasion. End applications include adhesives, coatings, sealants and thermosetting paints. It is also used in additives for personal care products.

SALES SPECIFICATION

APPEARANCE	clear liquid
PURITY	95.0% min
COLOR, APHA	50 max
FREE ACID	0.5% max
WATER	0.2% max
INHIBITOR	250 ± 50 ppm (MQME or/and HQ)

TRANSPORTATION

PACKING 200kgs in drum

HAZARD CLASS

UN NO.

REMARKS