

Material Safety Data Sheet



2-Ethylhexyl acrylate

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Identification

Product name : 2-Ethylhexyl acrylate
Chemical name : 2-Ethylhexyl acrylate
Molecular weight : 184.16
CAS No. : 103-11-7
Synonyms : 2-Ethylhexyl 2-propenoate. Acrylic acid 2-Ethylhexyl ester

Physical properties

Boiling point : 213.5 °C
Freezing point : -90 °C
Specific gravity : 0.8861
Vapor pressure : 4mmHg at 20 °C
Vapor density : 6.4
Flash point : 75 ~ 80 °C (C.C.), 91 °C (C.C.)
Autoignition temperature : 245 °C
Flammable limits in air : 0.8 ~ 6.4%
Viscosity : 1.54 CP at 20 °C
Appearance : Colorless liquid
Odor : Strong odor

Fire and explosion hazard data

Extinguishing media : CO₂, dry chemical, universal type foam.
Water may be ineffective

Fire and explosion hazards : Vapor is heavier than air and may travel along ground to a source of ignition and flash back.
Explosive when mixed with oxidizing agents, polymerization initiators or elevated temperatures.
Burning may cause CO and CO₂

Health data

Effects of excessive exposure	: May cause sever irritation or chemical burns of mouth, throat, esophagus and stomach with severe poisoning. May cause esophagus or gastric perforation.
Inhalation	: Irritation, drowsiness, headache, dullness and coughing.
Ingestion	: Abdominal pain, nausea, dizziness, cliarrhea and collapse.
Skin contact	: Prolonged exposure may cause burns and blisters.
Eye contact	: Local gnacethesla, redness, pain and blurred vision.
Aggravating conditions	: Use of alcoholic and alkalis beverages enhances toxic effects.

First aid procedures

Inhalation	: Remove patient from contaminated area. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	: Never give anything to eat to unconscious patient. Wash out mouth with water. Consult a physician.
Skin contact	: Remove contaminated clothing. Wash off with plenty of water. Consult a physician.
Eye contact	: Wash out with plenty if water for at least 15 minutes. Consult a physician.

Reactivity data

Stability	: Stable
Hazardous Polymerization	: Will occur.
Hazardous	
Decomposition products	: CO, CO ₂
Materials to avoid	: Oxidizing agents, strong base, acid, moisture in air.
Conditions to avoid	: Heat, spark flame.

Leak procedures

Environmental precautions	: Contact with strong acid, strong alkali, oxidizing agents, polymerization initiators, heat, flame, sunlight, X-ray, UV radiation should be avoided.
Steps to be taken	
If material is released	: Collect leaking or spilled liquid in sealable container . Absorb remainder in sand or other inert material. Collect in sealable containers for later disposal. Treatment is done by 10% NaOH (aq.) Solution.

Disposal

Waste disposal method : Combustion in incinerator for chemical waste.
Remarks : Destruction of waste monomers by biological digestion
System is satisfactory.

Special protection information

Protection of Respiratory organs : Gas mask.
Protection gloves : Neoprene or butyl rubber gloves.
Eye protection : Plastic faceshield with forehead protection should be
Always worn with chemical safety goggles.
Ventilation : Local exhaust and mechanical exhaust.
Remarks : When using, don't eat, drink nor smoke.

Special precautions

Precautions to be taken in handling and stroing

Handling : No specific.
Storing : Store away form oxidizing substance.
Oxygen is required to maintain stability of inhibited monomers.
Minimum concentration of 5% in vapor phase is Recommended.

Toxicological Information

Permissible Concentration limit : No information
Short-term inhalation Concentration limit : No information
Ingestion toxicity : LD₅₀ = 1,540 mg/kg (rat)
Irritation of vapor : Not irritation to eyes and throat.
Irritation of liquid and solid : Little toxicity
Red skin and prickly pain arise if solution on clothing is neglected.
IDHL : No information

Water contamination

Toxicity to aquatic life Concentration : 72 ppm/ 24hrs/ brine shrimp/ TLM
Through food chain : Not found

Shipping information

Purity	: More than 99%
Storage temperature	: Less than 38 °C
Storage in inert gas	: Not necessary.
Ventilation	: Opening.