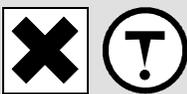


HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Harmful compound, minimize exposure. Irritating to skin, eyes, and the respiratory system. Lachrymator. Combustible material; avoid heat and sources of ignition. This compound is a possible skin sensitizer. <b>POSSIBLE CARCINOGEN. MINIMIZE EXPOSURE.</b> Heat and light sensitive.	

## Section I. Chemical Product and Company Identification

Chemical Name	<b>Acrylic Acid 2-Ethylhexyl Ester</b>		
Catalog Number	A0144	Supplier	TCI America 9211 N. Harborside St. Portland OR 1-800-423-8616
Synonym	2-Ethylhexyl Acrylate		
Chemical Formula	CH <sub>2</sub> :CHCOOCH <sub>2</sub> CH(C <sub>2</sub> H <sub>5</sub> )(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>		
CAS Number	103-11-7	In case of Emergency Call	<b>Chemtrec®</b> <b>(800) 424-9300 (U.S.)</b> <b>(703) 527-3887 (International)</b>

## Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Acrylic Acid 2-Ethylhexyl Ester	103-11-7	Min. 99.0 (GC)	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.	Rat LD <sub>50</sub> (oral) 6500mg/kg Rat LD <sub>50</sub> (intraperitoneal) 1760mg/kg Rabbit LD <sub>50</sub> (dermal) 8480mg/kg

## Section III. Hazards Identification

Acute Health Effects	Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Tumorigenic effects. Mouse TD (dermal) 240gm/kg/2 years continuous. Toxic effects: Tumorigenic - Neoplastic by RTECS criteria. Skin and appendages - Tumors. Tumorigenic - Tumors at site of application. Mouse TDLo (dermal) 187 gm/kg/78 weeks intermittent. Toxic effects: Tumorigenic - Carcinogenic by RTECS criteria. Skin and appendages - Tumors. Tumorigenic - Tumors at site of application. <b>DEVELOPMENTAL TOXICITY</b> Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

## Section IV. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. SEEK IMMEDIATE MEDICAL ATTENTION in case of ingestion of a radioactive material.

<b>Section V. Fire and Explosion Data</b>			
Flammability	Combustible.	Auto-Ignition	Not available.
Flash Points	79°C (174.2°F).	Flammable Limits	LOWER: 0.8% UPPER: 6.4%
Combustion Products	These products are toxic carbon oxides (CO, CO <sub>2</sub> ).		
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.		

<b>Section VI. Accidental Release Measures</b>	
Spill Cleanup Instructions	Harmful material. Irritating material. Combustible material. Lachrymator. Possible sensitizer. Possible carcinogen. Heat and light sensitive material. Keep away from heat. Mechanical exhaust required. Stop leak if without risk. Consult federal, state, and/or local authorities for assistance on disposal.

<b>Section VII. Handling and Storage</b>	
Handling and Storage Information	HARMFUL. IRRITANT. COMBUSTIBLE. LACHRYMATOR. POSSIBLE SENSITIZER. POSSIBLE CARCINOGEN. HEAT AND LIGHT SENSITIVE. Keep away from heat. Mechanical exhaust required. Avoid excessive heat and light. DO NOT ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids, alkalis (bases).

<b>Section VIII. Exposure Controls/Personal Protection</b>	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
	
Exposure Limits	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.

<b>Section IX. Physical and Chemical Properties</b>			
Physical state @ 20°C	Liquid. (Clear, colorless.)	Solubility	0.1g/100g water.
Specific Gravity	0.8869 (water=1)		
Molecular Weight	184.28	Partition Coefficient	Not available.
Boiling Point	215 to 219°C (419 to 426.2°F)	Vapor Pressure	0.1 kPa (@ 50°C)
Melting Point	-90°C (-130°F)	Vapor Density	6.35 (Air = 1)
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Pleasant. (Strong.)
Viscosity	Not available.	Taste	Not available.

<b>Section X. Stability and Reactivity Data</b>	
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Sensitive to heat and light. May polymerize on exposure to light or depletion of inhibitor.
Incompatibilities	Reactive with strong oxidizing agents, strong acids, strong alkalis (bases).

**Section XI. Toxicological Information**

RTECS Number	AT0855000
Routes of Exposure	Eye Contact. Ingestion. inhalation.
Toxicity Data	Rat LD <sub>50</sub> (oral) 6500mg/kg Rat LD <sub>50</sub> (intraperitoneal) 1760mg/kg Rabbit LD <sub>50</sub> (dermal) 8480mg/kg
Chronic Toxic Effects	<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Tumorigenic effects. Mouse TD (dermal) 240gm/kg/2 years continuous. Toxic effects: Tumorigenic - Neoplastic by RTECS criteria. Skin and appendages - Tumors. Tumorigenic - Tumors at site of application. Mouse TDLo (dermal) 187 gm/kg/78 weeks intermittent. Toxic effects: Tumorigenic - Carcinogenic by RTECS criteria. Skin and appendages - Tumors. Tumorigenic - Tumors at site of application. <b>DEVELOPMENTAL TOXICITY</b> Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.
Acute Toxic Effects	Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

**Section XII. Ecological Information**

Ecotoxicity	Not available.
Environmental Fate	2-Ethylhexyl acrylate may be released into the environment in fugitive and stack emissions or in wastewater during its production and use in the manufacture of plastics, protective coatings, papers treatments, and water-based paints. If 2-ethylhexyl acrylate is released to soil, it will be expected to exhibit moderate mobility in soil and, therefore, it may leach to groundwater. It may hydrolyze, especially in alkaline soils based upon hydrolysis data for the structurally similar ethyl acrylate. It may biodegrade in soil based upon the biodegradability of butyl acrylate in aqueous screening tests. It may volatilize from near surface soil and other surfaces. If 2-ethylhexyl acrylate is released to water, it will not be expected to adsorb to sediment or suspended particulate matter or bioconcentrate in aquatic organisms. Hydrolysis of 2-ethylhexyl acrylate may be a significant process especially in alkaline waters based upon hydrolysis data for the structurally similar ethyl acrylate. It may directly photolyze in sunlight based upon the slight absorption of light at wavelengths > 290 nm by ethyl acrylate and other acrylate esters. 2-Ethylhexyl acrylate may biodegrade in natural waters based upon the biodegradability of butyl acrylate and ethyl acrylate in aqueous screening tests. It will significantly volatilize from water with an estimated half-life of 7.3 hr for volatilization from a model river. The volatilization half-life from a model pond, which considers the effect of adsorption, has been estimated to be 2.7 days. If 2-ethylhexyl acrylate is released to the atmosphere, it will be expected to exist almost entirely in the vapor phase based upon a reported vapor pressure of 0.146 mm Hg at 23 deg C. It will be susceptible to photooxidation via vapor phase reaction with photochemically produced hydroxyl radicals and ozone. An atmospheric half-life of 10.3 hours at an atmospheric concentration of 5X10+5 hydroxyl radicals per cu cm and 7X10+11 ozone molecules per cu cm has been estimated for this process. The most probable route of human exposure to 2-ethylhexyl acrylate is by inhalation of contaminated air especially at workplaces where 2-ethylhexyl acrylate is manufactured and used. Dermal exposure to 2-ethylhexyl acrylate containing vapors or liquids also may occur at the workplace.

**Section XIII. Disposal Considerations**

Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.
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**Section XIV. Transport Information**

DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not available.
Proper Shipping Name	Not available.
Packing Group (PG)	Not available.
DOT Pictograms	

**Section XV. Other Regulatory Information and Pictograms**

TSCA Chemical Inventory (EPA)	This compound is <b>ON</b> the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). On DSL.
EINECS Number (EEC)	203-080-7
EEC Risk Statements	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R43- May cause sensitization by skin contact. R45- May cause cancer.
Japanese Regulatory Data	ENCS No. 2-990X

**Section XVI. Other Information**

**Version 1.0**  
**Validated on 5/14/2001.**  
**Printed 1/10/2005.**

**Notice to Reader**

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