

2-Ethyl-2-Oxazoline

Safety Data Sheet

NFPA	HMIS		Personal Protective Equipment
2 0	Health Hazard Fire Hazard Physical Hazard Personal Protection	2 3 0	
For additional information o	n toxicity, please refer to Sect	ion 11	See Section 8

Section 1: Identification			
Chemical Name:	2-ethyl-2-oz	xazoline	Manufacturer:
Synonyms:	ETOX		Polymer Chemistry Innovations, Inc.
Uses	Organic inte	ermediate or	4231 South Fremont Avenue
	monomer fo	or use in	Tucson, AZ 85714
	manufacturing water soluble		+1 520 746-8446 P
	polymer, specialty coatings,		+1 520 746-8876 F
	adhesives.		Chemtrec contract # 201299
Ingredient/Substance Name:	%	CAS #	800-424-9300 outside USA +1 703-527-3887
2-ethyl-2-oxazoline	99+	10431-98-8	In France: +33 1 45 42 59 59
ECHA Registration number	05-21172	61242-54-0000	In Netherlands: +31 30 274 8888
			skw@polychemistry.com

Section 2: Hazards Identification			
Hazard	Flammable Liquid 3 H226	R10	
Classification	Irritant H315 H319	Xi; R36 and R38	
Signal Word	WARNING		
PBT or vPvB	No data available at this time.		
Hazard	H226: Flammable liquid and vapo	r	
Statements	H315 + H319: Causes severe skin		

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Section 2:	Hazards Identification (Continued)
Precautionary	P210: Keep away from heat/sparks/open flames/hot surfaces.—No smoking
Statement	P240: Ground/bond container and receiving equipment; flammable vapors may be
Prevention	present
	P241: Use explosion-proof equipment.
	P242: Use only non-sparking tools.
	P260: Do not breathe dust/fumes/gas/mist/vapors/spray
	P264: Wash thoroughly after handling
	P280: Use chemical resistant gloves and chemical safety goggles when handling.
Precautionary	P301+P330+P331+P310: If swallowed, rinse mouth, DO NOT induce vomiting and seek
Statement	medical attention.
Response	P305+P351+P338: If in eyes, rinse with running water for several minutes. Remove
	contact lenses if present and easy to do so. Continue rinsing.
	P304+P340: If inhaled, remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	P303+P306+P353+P361+P362: If on skin, hair, or clothing; immediately remove
	clothing and wash skin under running water for several minutes. Wash contaminated
	clothing before reuse.
	P370+P378: In case of fire use water spray, chemical foam, carbon dioxide, and dry
	chemical for extinction.
Precautionary	
Statement Storage	P403+P404: Store in a well ventilated place. Store in a closed container.
Precautionary	
Statement	P501: Dispose of unusable product with a licensed waste facility in accordance with
Disposal	regulatory agencies. Dispose of empty containers in accordance with regulatory agencies.

Section 3: Composition/Information on Ingredients				
Chemical Name:	2-ethyl-2-oxazoline	99+ %	CAS #	10431-98-8
Synonyms:	ETOX			
Chemical Family:	Oxazoline			
Chemical Formula:	C ₅ H ₉ NO			

Section 4: First	Aid Measures
Eyes	Flush eyes with water for at least 15 minutes occasionally lifting the upper and lower lids.
	Seek medical attention immediately. Will cause severe irritation if left in the eye.
Skin	Wash skin with soap and water for 15 minutes. Remove contaminated clothing. Seek
	medical attention. Will cause severe irritation if left on the skin. Wash clothing before
	reuse.
Inhalation	In case of adverse reaction; remove from exposure. If not breathing, give artificial
	respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	Wash mouth with water. Do not induce vomiting. Seek immediate medical attention, or
	call poison control.
Symptoms/Effects	Acute symptoms: Severe irritation to skin and mucus membrane.
L	Chronic symptoms: None known.

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Section 5: Fire and Explosion Hazards	
Extinguishing Media	Water spray, dry chemical, carbon dioxide, and chemical foam.
Special Fire Fighting	
Instructions	None available.

Section 6: Accidental Release Information	
Spill or Release	Absorb spill with inert material, (e.g., vermiculite, dry sand or earth), then place into a
	chemical waste container. Do not use combustible materials such as sawdust. Remove
	all sources of ignition. Use spark-proof tools.

Section 7: Handling and Storage	
	Avoid contact with skin and clothing. Vapors can be irritating to mucous membrane if
Handling	inhaled. Ground or bond containers. Keep from entering the environment.
	Store in a cool, dry place, away from sources of ignition. Keep containers tightly closed
Storage	when not in use.

Section 8: Expo	sure Controls/Personal Protection
OSHA PEL	Not determined.
ACGIH TLV	Not determined.
Eyes	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard
	EN 166.
Skin	Wear appropriate chemical resistant gloves to prevent skin exposure. Work experience
	has shown polyethylene or neoprene provide the best protection.
Ventilation	Use ventilation to keep airborne concentrations low.
Respirator	Not mandatory with proper ventilation. Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 136 (EN 141). Always use a NIOSH or
	European Standard EN 136 approved respirator when necessary. Cartridges should be organic vapor/acid gas combination.

Section 9: Physical and Chemical Information		
Physical State	Liquid	
Appearance	Colorless liquid	
Odor/Odor		
Threshold	Not characterized/Not determined	
Melting Point	-62° C	
Boiling Point	128.4° C @ 760.00 mm Hg	
Solubility in Water	Miscible	
Partition Coefficient:		
n-octanol/water	Not determined	
Volatile Content	Not available	
рН	~11	
Flashpoint	29° C (84° F)	
Auto-ignition Temp.	410° C (770° F)	
Evaporation rate	Not determined	
Flammability	Flammable class IC	
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Comment [S1]: Comment [S2R1]:

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Section 9: Physical and Chemical Information (Continued)		
Explosion limit lower	Not available	
Explosion limit upper	Not available	
Vapor Pressure	0.450 (PSIA)	
Vapor Density	Not available	
Decomposition Temp	Not available	
Specific Gravity	.982 g/cm ³	
Viscosity	Not available.	
Molecular Weight	99.13	
Molecular Formula	C5H9NO	

Section 10: Stability and Reactivity		
Reactivity	Not determined.	
Hazardous		
Reactions	Spontaneous hazardous polymerization will not occur.	
Chemical Stability	Product is stable under normal conditions of storage and handling.	
Conditions to		
Avoid	Incompatible materials. Sources of ignition.	
Incompatibilities	Strong oxidizing agents, strong acids, copper alloys, copper.	
Decomposition		
Products	Nitrogen oxides, carbon monoxide, carbon dioxide.	

Section 11: Toxicology Information		
Carcinogen	Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA.	
Toxicity	Single exposure (acute) studies indicate:	
	Inhalation – No conclusive data at this time	
	Oral – rat LD50-2700 mg/kg, female, 3660 mg/kg, males. No human data.	
	Eye irritation – Work experience has shown severe irritation, with reversible damage in	
	humans.	
	Skin irritation – Work experience has shown severe irritation, with reversible damage in	
	humans.	

Section 12: Ecological Information	
Ecotoxicity	Not determined
Persistence and	
degradability	Not determined
Bioaccumulative	
potential	Not determined
Mobility in soil	Not determined
Other adverse	
effects	Not determined

Section 13: Disposal Considerations	
Disposal	Dispose of in a manner consistent with Federal, state, and local regulations. Must be disposed of in a licensed waste facility. Incineration is recommended method of disposal.
	Containers may be disposed as scrap metal if they are RCRA clean.

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Section 14: Transportation			
Shipping method	IATA/DOT/ADR 2009	IMO	
UN Number	2924	2924	
Proper shipping			
name	Flammable liquid, corrosive N.O.S.	Flammable liquid, corrosive N.O.S.	
Hazard class	3, 8	3, 8	
Packing group	III	III	
Flash point		29° C	
Marine Pollutant		No	
Reportable			
Quantity	100 lbs.		
Bulk			
Transportation	Yes	Yes	

Section 15: Regulatory Information		
Registration with	DSL – Supplement to Canada Gazette, Part 1 January 26, 1991	
regulatory	ECL – KE-13993 Korean Existing Chemical List, January 1997	
agencies	EINECS - 233-912-4 Annex to Official Journal of the European Communities, 15 June	
	1990 (Replaced by Reach registration 05-2117261242-54-0000)	
	ENCS – 5-5627 Japanese Gazette	
	PICCS – Philippines Inventory of Chemicals and Chemical Substances, 2000	
	TSCA – On TSCA inventory July 2003 Inventory Tape	
Environmental		
special provisions	No data at this time	

Section 16: Additional Information

Creation date: 03/05/01 Created by Polymer Chemistry Innovations, Inc.

Last revision date: 08/13/2013. Revision #8

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