

# Safety Data Sheet per OSHA HazCom 2012



### Product name: Ethyl propenyl ether

(Contd. of page 1)

	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After ave constact Pinse opened eve for several minutes under running water. Then consult a doctor	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special freatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dioxide  Advice for firefighters	
Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Keep away from ignition sources	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)	
Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources.	
Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling	
Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of aerosols.	
Information about protection against explosions and fires: Protect against electrostatic charges.	
Funes can combine with air to form an explosive mixture. Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Store away from oxidizing agents.	
Further information about storage conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace: Not required.	
Addítional information: No data	
Exposure controls Personal protective equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Weak bards before before before a to the order of the order	
Wash hands before breaks and at the end of work. Avoid contact with the eves and skin	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Protection of hands: Impervious gloves	
Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	
Body protection: Protective work clothing.	USA
	(Contd. on page 3)

Color

Odor:

(Contd. of page 2)

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liauid Colorless Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 69-71 °C (156-160 °F) Not determined 20 °C (68 °F) Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Lower: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Upper: Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Not determined 0.778 g/cm³ (6.492 lbs/gal) Not determined. Not determined Evaporation rate Solubility in / Miscibility with Not determined. Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined. kinematic: Other information Not determined. No further relevant information available. 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known LD/LC50 values that are relevant for classification: LD50 4660 µL/kg (rat) LD50 3970 µL/kg (rabbit) Inhalative LCLo/4H 8000 ppm/4H (rat) Irritation of skin mild 500 mg/24H (rabbit) Irritation of eyes mild 500 mg/24H (rabbiť) Skin irritation or corrosion: Causes skin irritation. Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

#### 12 Ecological information

Oral

Dermal

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information:

General notes:

General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. **Results of PBT and vPvB assessment PBT**: Not applicable. vPvB: Not applicable. Other advance affects No further relevant information available.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal.

(Contd. on page 4)

### Product name: Ethyl propenyl ether

(Contd. of page 3)

### Uncleaned packagings:

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Cond. of page 3)	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3271	
UN proper shipping name		
DOT I III G IMDG, IATA	Ethers, n.o.s. (Ethyl propenyl ether) ETHERS, N.O.S. (Ethyl propenyl ether)	
Transport hazard class(es)		
DOT		
Class Label	3 Flammable liquids.	
Class	3 (F1) Flammable liquids	
Label IMDG, IATA	3	
<b>e</b>		
Class	3 Flammable liquids. 3	
Label Packing group DOT, IMDG, IATA	3	
	 Not applicable	
Environmental hazards: Special precautions for user	Not applicable. Warning: Flammable liquids	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN3271, Ethers, n.o.s. (Ethyl propenyl ether), 3, II	
GHS02 GHS07         Signal word Danger         Hazard statements         H225 Highly flammable liquid and vapor.         H315 Causes skin irritation.         H319 Causes serious eye irritation.         H325 May cause respiratory irritation.         P210       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		
National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65		
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		
<b>16 Other information</b> Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:		

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

# Safety Data Sheet per OSHA HazCom 2012

- DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA