

Safety Data Sheet ENEA0254 Date of issue: 08/20/2015 Version:

Version: 1.0

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quid		
LLYLOXY(POLYETHYLENE OXIDE) (2-6 EO)		
NEA0254		
LLYL ALCOHOL ETHOXYLATE; POLYETHYLEN OLYETHYLENE OXIDE MONOALLYL ETHER	IE GLYCC	DL MONOALLYL ETHER;
OLYETHER		
e or mixture and uses advised against		
sheet		
5:30 PM EST		
	0007 ()	
HEMTREC: 1-800-424-9300 (USA); +1 703-527-3	3887 (Inte	inational)
e		
ingradiants		
Ingredients		
lono constituent		
	-	Classification (GHS-US)
		Not classified Flam. Lig. 2, H225
		Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H301 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400
	POLYETHYLENE OXIDE MONOALLYL ETHER POLYETHER e or mixture and uses advised against Chemical intermediate for research and industrial use only sheet 5:30 PM EST	POLYETHYLENE OXIDE MONOALLYL ETHER POLYETHER e or mixture and uses advised against Chemical intermediate for research and industrial use only sheet 5:30 PM EST CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (Inter POLYETHYLENE (USA); +1 703-527-3887 (Inter POLYETHYLENE OXIDE) (2-6 EO) 7274-31-3 Product identifier (CAS No) 27274-31-3 > 97

#### 3.2. Mixture

Not applicable

## ALLYLOXY(POLYETHYLENE OXIDE) (2-6 EO) Safety Data Sheet

SECTION 4: First aid measures	
1.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, i present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May be irritating to the respiratory system.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medicate No additional information available	al attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Avoid all eye and skin contact and do not breathe vapor and mist.</li> </ul>
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Noti	fy authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	ent and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	I protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	
Storage conditions	: Keep container tightly closed.
08/20/2015	EN (English US) SDS ID: ENEA0254 2/7

Safety Data Sheet

Incompatible	materials
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: Oxidizing agent.

Storage area

storage area

: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available					
SECTION 8: Exposure con	trols/personal protection				
8.1. Control parameters					
Allyl alcohol (107-18-6)					
	CGIH TWA (ppm)	0.5 ppm			
	IOSH REL (TWA) (mg/m³)	5 mg/m <sup>3</sup>			
	IOSH REL (TWA) (ppm)	2 ppm			
		10 mg/m <sup>3</sup>			
	IIOSH REL (STEL) (mg/m <sup>3</sup> )	, ,			
	IOSH REL (STEL) (ppm)	4 ppm			
	PSHA PEL (TWA) (mg/m³)	5 mg/m³			
USA OSHA C	OSHA PEL (TWA) (ppm)	2 ppm			
USA IDLH L	S IDLH (ppm)	20 ppm			
8.2. Exposure controls					
Appropriate engineering controls	: Provide local exhaust or g				
Personal protective equipment		bosure. Emergency eye wash fountains and safety showers should be			
	available in the immediate	e vicinity of any potential exposure.			
Hand protection	: Neoprene or nitrile rubber	aloves			
Eye protection		ct lenses should not be worn.			
Skin and body protection	: Wear suitable protective of				
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is				
		ertified organic vapor (black cartridge) respirator.			
<b>SECTION 9: Physical and</b>	chemical properties				
	nysical and chemical properties				
Physical state	: Liguid				
Appearance	: Clear liquid. Viscous.				
Molecular mass	: ~ 250 g/mol				
Color	: Pale yellow.				
Odor	: No data available				
Odor threshold	: No data available				
Refractive index	: 1.458				
рН	: No data available				
Relative evaporation rate (butyl ace	etate=1) : No data available				
Melting point	: No data available				
Freezing point	: -30 °C				
Boiling point	: > 205 °C				
Flash point	: > 110 °C				
Auto-ignition temperature	: No data available				
Decomposition temperature	: No data available				
Flammability (solid, gas)	: No data available				
Vapor pressure	: < 0.01 mm Hg @ 20°C				
Relative vapor density at 20 °C Relative density	: No data available				
VOC content	: 1.059				
Solubility	: < 3 % : Insoluble in water.				
Log Pow	: No data available				
Log Kow	: No data available				
Viscosity, kinematic	: 15 - 25 cSt				

Viscosity, dynamic

Explosive properties Oxidizing properties No data availableNo data available

: No data available

# ALLYLOXY(POLYETHYLENE OXIDE) (2-6 EO) Safety Data Sheet

Explosion limits	: No data available
•	
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
0.0	
<b>10.6.</b> Hazardous decomposition products Organic acid vapors.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Allyl alcohol (107-18-6)	
LD50 oral rat	64 mg/kg
LD50 oral mouse	96 mg/kg
LD50 dermal rabbit	89 mg/kg
LC50 inhalation rat (mg/l) ATE US (oral)	0.391 mg/l/4h 64.000 mg/kg body weight
ATE US (dermal)	89.000 mg/kg body weight
ATE US (vapors)	0.391 mg/l/4h
ATE US (dust, mist)	0.391 mg/l/4h
Polyethylene oxide monoallyl ether (27274-3	1-3)
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May be irritating to the respiratory system.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Allyl alcohol (107-18-6)	
LC50 fish 1	0.28 - 0.37 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	0.32 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
12.2. Persistence and degradability	
No additional information available	

12.3. **Bioaccumulative potential** 

## ALLYLOXY(POLYETHYLENE OXIDE) (2-6 EO) Safety Data Sheet

Allyl alcohol (107-18-6)				
BCF fish 1	(no bioaccumulation expected)			
Log Pow	0.17			
12.4. Mobility in soil				
No additional information available				
12.5. Other adverse effects				
Other adverse effects	This substance may be hazardous to the environment.			
Effect on ozone layer	No additional information available			
Effect on the global warming	No known ecological damage caused by this product.			
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Sewage disposal recommendations	Do not dispose of waste into sewer.			
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations.			
Ecology - waste materials	Avoid release to the environment.			
SECTION 14: Transport information				
14.1. UN number				
Not regulated for transport.				
14.2. UN proper shipping name				
Not applicable				
14.3. Additional information				
Other information	No supplementary information available.			
Transmit hurses				
Transport by sea				
No additional information available				
Air transport				
No additional information available				
<b>SECTION 15: Regulatory information</b>				
15.1. US Federal regulations				
Allyl alcohol (107-18-6)				
Listed on the United States TSCA (Toxic Substar Listed on the United States SARA Section 302 Listed on United States SARA Section 313	ices Control Act) inventory			
SARA Section 302 Threshold Planning Quantity (TPQ)	1000			
SARA Section 313 - Emission Reporting	1.0 %			
Polyethylene oxide monoallyl ether (27274-31	-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
15.2. International regulations				
Allyl alcohol (107-18-6)				
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Incredient Disclosure List)				

Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances)

Safety Data Sheet

	nonoallyl ether (27274-31-3) ustralian Inventory of Chemical	Sub	stances)				
	n DSL (Domestic Sustances Lis		stances)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)							
Listed on the Japanes	e ENCS (Existing & New Chem	nical	Substances) inventory	Offinia)			
Listed on the Korean E	ECL (Existing Chemicals List)						
	Zealand Inventory of Chemica	ls)					
Listed on PICCS (Phili	ppines Inventory of Chemicals	and	Chemical Substances)				
15.3. US State regulati	ons						
•	YLENE OXIDE) (2-6 EO)(2727	4-31	-3)				
J.S California - Propo	sition 65 - Carcinogens List	Ν	lo				
	sition 65 - Developmental	Ν	lo				
Toxicity							
	sition 65 - Reproductive	Ν	No				
Toxicity - Female							
U.S California - Propo	sition 65 - Reproductive	N	No				
Toxicity - Male							
Allyl alcohol (107-18-6	)						
U.S California -	U.S California -		U.S California -	U.S California -	No significance risk leve		
Proposition 65 -	Proposition 65 -		Proposition 65 -	Proposition 65 -	(NSRL)		
Carcinogens List	Developmental Toxicity		Reproductive Toxicity -	Reproductive Toxicity -			
			Female	Male			
No	No		No	No			
Polyethylene oxide mo	onoallyl ether (27274-31-3)						
U.S California -	U.S California -		U.S California -	U.S California -	No significance risk leve		
Proposition 65 -	Proposition 65 -		Proposition 65 -	Proposition 65 -	(NSRL)		
Carcinogens List	Developmental Toxicity		Reproductive Toxicity - Female	Reproductive Toxicity - Male			
No	No		No	No			

### **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

Acute Tox. 1 (Inhalation:vapour)	Acute toxicity (inhalation:vapor) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

#### **HMIS III Rating**

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Safety Data Sheet

Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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