

Creation Date 16-Nov-2010

Revision Date 11-Feb-2013

Revision Number 2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description: 2-Propoxyethanol
 Reach Registration Number 01-2119883539-19
 Cat No. 418400000; 418400010; 418400050
 Synonyms Ethylene glycol propyl ether.

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
 Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute dermal toxicity	Category 3
Serious Eye Damage/Eye Irritation	Category 2
Flammable liquids.	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful
 R-phrases(s) R21 - Harmful in contact with skin
 R36 - Irritating to eyes

Label Elements

2-Propoxyethanol

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SECTION 2. HAZARDS IDENTIFICATION



Signal Word

Danger

Hazard Statements

H319 - Causes serious eye irritation

H312 - Harmful in contact with skin

H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Ethylene glycol monopropyl ether 2807-30-9	EEC No. 220-548-6	>95	2807-30-9	Xn; R21 Xi; R36	Acute Tox. 3 (H311) Eye Irrit. 2 (H319) Flam. Liq. 3 (H226)	01-2119883539-19

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

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SECTION 4. FIRST AID MEASURES**Description of first aid measures****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Ingestion

Clean mouth with water. Get medical attention.

Inhalation

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Notes to Physician

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media****Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Flammable.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE**Precautions for Safe Handling**

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Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Use explosion-proof equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Ethylene glycol
monopropyl ether

European Union	The United Kingdom	France	Belgium	Spain
				Skin VLA-ED: 20 ppm 8 horas VLA-ED: 86 mg/m ³ 8 horas

Component

Ethylene glycol
monopropyl ether

Italy	Germany	Portugal	The Netherlands	Finland
	MAK: 20 ppm 8 Stunden. MAK: 86 mg/m ³ 8 Stunden. skin notation Skin Peak: 40 ppm Peak: 172 mg/m ³ TWA: 20 ppm 8 Stunden. exposure factor 2 TWA: 86 mg/m ³ 8 Stunden. exposure factor 2			

Component

Ethylene glycol
monopropyl ether

Austria	Denmark	Switzerland	Poland	Norway
Skin STEL: 20 ppm 15 Minuten STEL: 86 mg/m ³ 15 Minuten TWA: 20 ppm 8 Stunden TWA: 86 mg/m ³ 8 Stunden Ceiling: 20 ppm Ceiling: 86 mg/m ³	TWA: 25 ppm 8 timer TWA: 110 mg/m ³ 8 timer	Skin STEL: 40 ppm 15 Minuten STEL: 170 mg/m ³ 15 Minuten MAK: 20 ppm 8 Stunden MAK: 85 mg/m ³ 8 Stunden		

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Component
Ethylene glycol
monopropyl ether

Estonia	Gibraltar	Greece	Hungary	Iceland
				TWA: 25 ppm 8 klukkustundum. TWA: 110 mg/m ³ 8 klukkustundum. Ceiling: 50 ppm Ceiling: 220 mg/m ³

Component
Ethylene glycol
monopropyl ether

Latvia	Lithuania	Luxembourg	Malta	Romania
	TWA: 10 ppm TWA: 45 mg/m ³ Skin notation STEL: 20 ppm STEL: 90 mg/m ³			

Component
Ethylene glycol
monopropyl ether

Russia - TWA	Slovak Republic	Slovenia	Sweden	Turkey
		TWA: 20 ppm 8 urah TWA: 86 mg/m ³ 8 urah Potential for cutaneous absorption STEL: 20 ppm 15 minutah STEL: 86 mg/m ³ 15 minutah	STV: 20 ppm 15 minuter STV: 90 mg/m ³ 15 minuter LLV: 10 ppm 8 timmar. LLV: 45 mg/m ³ 8 timmar. Skin notation	

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

Eye Protection

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance

Clear

Odor

Petroleum distillates

pH

No information available.

Vapor Pressure

1.7 mbar @ 20 °C

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density	3.6
Boiling Point/Range	149°C / 300.2°F
Melting Point/Range	-70°C / -94°F
Flash Point	57°C / 134°F
Method -	Closed cup
Autoignition Temperature	230°C / 446°F
Explosion Limits	
Lower	5.5
Upper	23
Water Solubility	soluble
Specific Gravity	0.910
Molecular Formula	C5 H12 O2
Molecular Weight	104.15

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

May form explosive peroxides. Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	No information available.

Conditions to Avoid

Excess heat, Exposure to air, Exposure to light, Incompatible products.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂). peroxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

Component
Ethylene glycol monopropyl ether

LD50 Oral	LD50 Dermal	LC50 Inhalation
3089 mg/kg (Rat)	960 µL/kg (Rabbit)	>9 mg/L/6h (Rat)

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Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

No information available.

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information

None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

No information available.

Component	log Pow
Ethylene glycol monopropyl ether	0.08

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No

UN1986

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SECTION 14. TRANSPORT INFORMATION

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III
Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

ADR

UN-No UN1986
Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III
Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

IATA

UN-No UN1986
Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III
Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Ethylene glycol monopropyl ether	220-548-6	-		X	X	-	X	X	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

2-Propoxyethanol

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SECTION 16. OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

R21 - Harmful in contact with skin

R36 - Irritating to eyes

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Revision Summary

Reason for revision (M)SDS sections updated, 2, 3, 9.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet