

SAFETY DATA SHEET

Revision Date 16-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: Propargyl alcohol

Cat No. 131450000; 131450050; 131452500; 131455000

Synonyms 2-Propyn-1-ol

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 Pharmaceuticalaan 3a

2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

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

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion / irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Chronic aquatic toxicity	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 mentioned in this Section, see Section 16

Symbol(s) T - Toxic

N - Dangerous for the environment

R -phrase(s) R10 - Flammable

R34 - Causes burns

R43 - May cause sensitization by skin contact

Risk Combination Phrases R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

2. HAZARDS IDENTIFICATION

Label Elements







Danger

Hazard Statements

H411 - Toxic to aquatic life with long lasting effects

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H226 - Flammable liquid and vapor

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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

P361 - Remove/Take off immediately all contaminated clothing

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P280 - Wear eye protection/face protection

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

P310 - Immediately call a POISON CENTER or doctor/physician

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P273 - Avoid release to the environment

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

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.

3.	COMPOSIT	ION/INFOR	MATION ON	INGREDIE	NTS
Formaldehyde		0.5	50-00-0	T;R23/24/25 C;R34 R43	Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)
Propargyl alcohol	EEC No. 203- 471-2	99	107-19-7	R10 T;R23/24/25 C;R34 N;R51-53	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Immediate medical attention is required Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes

Skin ContactWash off immediately with soap and plenty of water removing all contaminated clothes and

shoes Immediate medical attention is required

Ingestion Do not induce vomiting Call a physician immediately Clean mouth with water

Inhalation Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not

breathing, give artificial respiration Immediate medical attention is required

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable Extinguishing Media

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

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

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 and closed containers for disposal Remove all sources of ignition Use spark-proof tools and explosion-proof equipment

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing 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 place Keep container tightly closed Keep away from heat and sources of ignition Refrigerator/flammables

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Formaldehyde

Propargyl alcohol

European Union	The United Kingdom	France	Belgium	Spain
		VME: 0.5 ppm		VLA-EC: 0.37 mg/m ³
		VLCT: 1 ppm		VLA-EC: 0.3 ppm
		VME: 1 ppm	TWA: 2.3 mg/m ³	VLA-ED: 2.3 mg/m ³
		VME: 2 mg/m ³	TWA: 1 ppm	VLA-ED: 1 ppm

Component

Formaldehyde

Propargyl alcohol

Italy	Portugal The Netherlands		Finland	Denmark		
	Ceiling: 0.3 ppm	STEL: 0.5 mg/m ³ TWA: 0.15 mg/m ³	TWA: 0.37 mg/m ³ TWA: 0.3 ppm STEL: 1.2 mg/m ³ STEL: 1 ppm Ceiling: 1 ppm Ceiling: 1.2 mg/m ³	Ceiling: 0.3 ppm Ceiling: 0.4 mg/m ³		
	TWA: 1 ppm		TWA: 2.3 mg/m ³ TWA: 1 ppm STEL: 7 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³		

Component Formaldehyde

Austria	Switzerland	Poland	Norway	Ireland
STEL: 0.5 ppm	STEL: 0.6 ppm	NDSCh: 1 mg/m ³	TWA: 0.5 ppm	TWA: 2.5 mg/m ³
STEL: 0.6 mg/m ³	STEL: 0.74 mg/m ³	NDS: 0.5 mg/m ³	TWA: 0.6 mg/m ³	TWA: 2 ppm
MAK: 0.5 ppm	MAK: 0.3 ppm		Ceiling: 1 ppm	STEL: 2.5 mg/m ³
MAK: 0.6 mg/m ³	MAK: 0.37 mg/m ³		Ceiling: 1.2 mg/m ³	STEL: 2 ppm
Ceiling: 0.5 ppm				
Ceiling: 0.6 mg/m ³				

ACR13145 - Propargyl alcohol

Component Propargyl alcohol

Austria	Switzerland	Poland	Norway	Ireland
STEL: 4 ppm	STEL: 9.4 mg/m ³	NDS: 3 mg/m ³	TWA: 1 ppm	TWA: 2 mg/m ³
STEL: 9.4 mg/m ³	STEL: 4 ppm	_	TWA: 2.5 mg/m ³	TWA: 1 ppm
MAK: 2 ppm	MAK: 2 ppm		_	STEL: 6 mg/m ³
MAK: 4.7 mg/m ³	MAK: 4.7 mg/m ³			STEL: 3 ppm
_				Skin

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

ion N

No information available. No information available.

(PNEC)

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 Hand Protection

Goggles

Skin and body protection Respiratory Protection Protective gloves
Wear appropriate protective gloves and clothing to prevent skin exposure

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClearodorslightnH7 33%

 pH
 7 33% aq.sol.

 Vapor Pressure
 10 mbar @ 20 °C

Vapor Density 1.93

 Viscosity
 1.58 mPa.s at 20 °C

 Boiling Point/Range
 114 - 115°C / 237.2 - 239°F

 Melting Point/Range
 -53 - 52°C / -63.4 - 125.6°F

Decomposition temperature > 120°C Flash Point 34°C / 93.2°F

Explosion Limits

 Lower
 2.2

 Upper
 98

 Water Solubility
 miscible

 Specific Gravity
 0.949

 Molecular Formula
 C3 H4 O

 Molecular Weight
 56.06

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous PolymerizationNo information available.Hazardous Reactions .No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials

Acids, Strong oxidizing agents.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

ComponentFormaldehyde
Propargyl alcohol

LD50 Oral	LD50 Dermal	LC50 Inhalation
500 mg/kg (Rat)		0.578 mg/L (Rat)4 h
20 mg/kg (Rat)	16 mg/kg (Rabbit)	

Chronic Toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Sensitization May cause sensitization by skin contact

Mutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental EffectsNo information availableTarget OrgansNo 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

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Formaldehyde		Leuciscus idus: LC50 =		EC50 = 20 mg/L 96h
-		15 mg/L 96h		EC50 = 2 mg/L 48h
Propargyl alcohol		1.49-1.56 mg/L LC50		32 mg/L EC50 = 24 h
		96 h		

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Component log Pow
Formaldehyde 0.35

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

Products

Contaminated Packaging

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No 2929
Hazard Class 6.1
Subsidiary Hazard Class 3
Packing Group ||

Proper Shipping Name TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

ADR

UN-No 2929
Hazard Class 6.1
Subsidiary Class 3
Packing Group ||

Proper Shipping Name TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

IATA

UN-No 2929
Hazard Class 6.1
Subsidiary Hazard Class 3
Packing Group ||

Proper Shipping Name TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.*

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
Formaldehyde	200-001-8	-		Х	X	-	X	X	X	X	KE-17074
,											X

Propargyl alcohol	203-471-2 -	Χ	X	-	Х	Х	Х	Х	KE-29870
									X

Legend

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

EINECS/ELINCS - European Inventory Lists

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

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R10 - Flammable

R34 - Causes burns

R43 - May cause sensitization by skin contact

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 16-Nov-2010 Revision Summary Not applicable

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

Disclaimer

The information provided on this SDS 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