# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 5.5 Revision Date 05/24/2016 Print Date 11/10/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Glycerol propoxylate (1PO/OH) triacrylate
	Product Number Brand	:	412120 Aldrich
	CAS-No.	:	52408-84-1
1.2	Relevant identified uses of	f th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Synthesis of substances
1.3	Details of the supplier of t	hes	safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone Fax	:	+1 800-325-5832 +1 800-325-5052

### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** Eye irritation (Category 2A), H319 Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word



Warning

olgilal word	Warning
Hazard statement(s) H317 H319	May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: 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.
P321	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.

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P337 + P313	If eye irritation persists: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Formula	:	[H2C=CHCO2(C3H6O)ICH2][H2C=CHCO2(C3H6O)m][H2C=CHCO2(C3
		H6O)nCH2]CH
CAS-No.	:	52408-84-1

#### Hazardous components

Component	Classification	Concentration
Poly[oxy(methyl-1,2-ethanediyl)],	, α,α',α''-1,2,3-propanetriyltris[ω-[(1-oxo-2-prope	n-1-yl)oxy]-
	Eye Irrit. 2A; Skin Sens. 1;	<= 100 %
	H317, H319	
For the full text of the H-Statements	s mentioned in this Section, see Section 16.	

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

- **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture No data available

### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information No data available

### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Colour: colourless

	<b>b</b> )	Odour	
	b)		No data available
	c)	Odour Threshold	No data available
	d)	pH	No data available
	e)	Melting point/freezing point	Melting point/freezing point: < -20 °C (< -4 °F) at 1,013 hPa (760 mmHg) - OECD Test Guideline 102
	f)	Initial boiling point and boiling range	> 347 °C (> 657 °F) at ca.1,009 hPa (757 mmHg) - OECD Test Guideline 103
	g)	Flash point	257.5 °C (495.5 °F) - ISO 3679
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	<= 0.0000 hPa (<= 0.0000 mmHg) at 20 °C (68 °F) - OECD Test Guideline 104
	I)	Vapour density	No data available
	m)	Relative density	1.064 g/cm3 at 25 °C (77 °F) - lit.
	n)	Water solubility	1.2 g/l at 20 °C (68 °F) - soluble
	0)	Partition coefficient: n- octanol/water	log Pow: 2.52 at 23 °C (73 °F) - OECD Test Guideline 107
	p)	Auto-ignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2	Oth	ner safety information	
		Surface tension	46 mN/m at 22 °C (72 °F)
10. S	ΓΑΒΙ	LITY AND REACTIVITY	
10.1		<b>activity</b> data available	
10.2			
10.3		s <b>sibility of hazardous rea</b> data available	ictions
10.4		nditions to avoid posure to light may affect p	roduct quality.
10.5		ompatible materials ines, acids, Bases, Free ra	adical initiators
10.6		zardous decomposition prozention procession proces	products oducts formed under fire conditions Carbon oxides

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

No data available

### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit Result: Irritating to eyes. - 24 h (OECD Test Guideline 405)

### Respiratory or skin sensitisation

- Mouse Result: May cause sensitisation by skin contact. (OECD Test Guideline 429)

### Germ cell mutagenicity

Ames test S. typhimurium Result: negative

### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity No data available

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

### **Additional Information**

RTECS: TR4706500

Damage to the eyes., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Mequinol)

### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Toxicity to fish	static test LC50 - Danio rerio (zebra fish) - 5.74 mg/l  - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 91.4 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Desmodesmus subspicatus (green algae) - 12.2 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h (OECD Test Guideline 209)
Persistence and degrad	lability

12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 72 - 85 % - Readily biodegradable (OECD Test Guideline 301B)

**12.3 Bioaccumulative potential** No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

### IMDG

Not dangerous goods

Not dangerous goods

### 15. REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

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### Acute Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components		
Poly[oxy(methyl-1,2-ethanediyl)], α,α',α''-1,2,3- propanetriyltris[ω-[(1-oxo-2-propen-1-yl)oxy]-	CAS-No. 52408-84-1	Revision Date
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Poly[oxy(methyl-1,2-ethanediyl)], α,α',α''-1,2,3- propanetriyltris[ω-[(1-oxo-2-propen-1-yl)oxy]-	52408-84-1	

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
Skin Sens.	Skin sensitisation
HMIS Rating	

#### HMIS Rating

Health hazard:	2	
Chronic Health Hazard:		
Flammability:	1	
Physical Hazard	0	
NFPA Rating		
NFPA Rating Health hazard:	2	
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#### Further information

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### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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