SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 3.8 Revision Date 06/26/2014 Print Date 11/10/2018

	RODUCT AND COMPANY				
		IDENTIFICATION			
1.1	Product identifiers Product name	[:] Dipropylene	glycol		
	Product Number Brand	: D215554 : Aldrich			
	CAS-No.	: 25265-71-8			
.2	Relevant identified uses	s of the substance or mi	xture and uses advised aga	inst	
	Identified uses	: Laboratory chemi	cals, Manufacture of substanc	es	
.3	Details of the supplier of the safety data sheet				
	Company	: Sigma-Aldrich 3050 Spruce Stree SAINT LOUIS MC USA			
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052			
1.4	Emergency telephone n	number			
	Emergency Phone #	: +1-703-527-3887	(CHEMTREC)		
2. H/	AZARDS IDENTIFICATION	1			
2.1	Classification of the sul	bstance or mixture			
	Not a hazardous substan	ce or mixture.			
2.2	GHS Label elements, including precautionary statements				
	Not a hazardous substance or mixture.				
2.3	Hazards not otherwise	classified (HNOC) or not	covered by GHS - none		
3. CO	OMPOSITION/INFORMATI	ON ON INGREDIENTS			
3.1	Substances Formula Molecular Weight CAS-No. EC-No.	: C ₆ H ₁₄ O ₃ : 134.17 g/mol : 25265-71-8 : 246-770-3			
	Hazardous components	6			
	Component		Classification	Concentration	
	Oxydipropanol			00 100 %	
				90 - 100 %	

4.1 Description of first aid measures

General advice

Move out of dangerous area.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

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 Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapours, mist or gas. 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 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** 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.

Hygroscopic. Store under inert gas.

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.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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: viscous Colour: colourless
b)	Odour	odourless
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: < -20 °C (< -4 °F) at 101.3 hPa (76.0 mmHg)
f)	Initial boiling point and boiling range	227 °C (441 °F) at 0.98 hPa (0.74 mmHg)
g)	Flash point	130 °C (266 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	0.0 hPa (0.0 mmHg) at 25 °C (77 °F)
I)	Vapour density	5.37
m)	Relative density	1.023 g/mL at 25 °C (77 °F)
n)	Water solubility	soluble
o)	Partition coefficient: n- octanol/water	log Pow: -0.46 at 21.7 °C (71.1 °F)
p)	Auto-ignition temperature	332 °C (630 °F) at 98.96 - 100.18 hPa (74.23 - 75.14 mmHg)
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	71.4 mN/m at 1.01 at 22 °C (72 °F)
		Relative vapour density	5.37
10. S	ТАВ	ILITY AND REACTIVITY	
10.1	Reactivity no data available		
10.2	Chemical stability Stable under recommended storage conditions.		
10.3	Possibility of hazardous reactions no data available		
10.4	Conditions to avoid no data available		
10.5	Incompatible materials Strong oxidizing agents		
10.6	Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5		
11. TO	OXIC	OLOGICAL INFORMATIO	ON
11.1	Info	ormation on toxicologica	I effects
		u te toxicity 50 Oral - rat - male and fer	nale - > 5,000 mg/kg
	LC	50 Inhalation - rat - male a	nd female - 4 h - > 2.34 mg/l
	LD50 Dermal - rabbit - > 5,010 mg/kg		
	no data available		
	Skin corrosion/irritation Skin - rabbit Result: No skin irritation		
Serious eye damage/eye irritation Eyes - rabbit Result: No eye irritation Respiratory or skin sensitisation Buehler Test - guinea pig Did not cause sensitisation on laboratory animals. Germ cell mutagenicity in vitro assay lymphocyte Result: negative		itation	
		n vitro assay mphocyte	
		tagenicity (micronucleus te - male	est)
	Ca	rcinogenicity	
	IAF		this product present at levels greater than or equal to 0.1% is identified as e or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

Aldrich - D215554

carcinogen or potential carcinogen by ACGIH.

- 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

Reproductive toxicity - rat - Oral Maternal Effects: Other effects.

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

Repeated dose toxicity - rat - male - Oral - No observed adverse effect level - 470 mg/kg

Repeated dose toxicity - rat - female - Oral - No observed adverse effect level - 530 mg/kg RTECS: UB8765000

prolonged or repeated exposure can cause:, Central nervous system depression, Nausea, Headache, Vomiting

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.2

12.3

	-		
	Toxicity to fish	LC50 - Carassius auratus (goldfish) - > 5,000 mg/l - 24 h	
	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)	
	Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)	
2	Persistence and degrad Biodegradability	ability aerobic - Exposure time 28 d Result: 84.4 % - Readily biodegradable. (OECD Test Guideline 301F)	
3	-	oaccumulative potential	
	Bioaccumulation	Cyprinus carpio (Carp) - 3 mg/l	
		Bioconcentration factor (BCF): 0.3 - 4.6 (OECD Test Guideline 305C)	

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.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

SARA 313: 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

Chronic Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

remisylvania right to rinow components		
	CAS-No.	Revision Date
Oxydipropanol	25265-71-8	1989-08-11
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Oxydipropanol	25265-71-8	1989-08-11

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

HMIS Rating Health hazard: Chronic Health Hazard: Flammability: Physical Hazard	1 * 1 1	
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard: Health hazard: Fire Hazard: Reactivity Hazard:	1 1 0 1 0	

Further information

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Preparation Information

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

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