Printing date 03.05.2018

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	v 1: Identifi	cation of the si	ubstance/mixtur	e and of the co	mpany/undertaking	
1.1 Produc	ct identifier				CFDV	7
Trade nan	ie: <u>Glycid et</u> l	er 100 for elect	ron microscopy		serving scient	ists
Synonyma						
1,2,3-Prop GE 100	anetriol glyc	idyl ether			· · · · · · · · · · · · · · · · · · ·	
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Article nu CAS Num	<b>mber:</b> 21045					,
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EC numbe						
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Carl-Benz D-69115 H						
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msds.info@	@serva.de		CON.			
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1.4 Emerg	ency telepho					
<b>1.4 Emerg</b> Medical E	mergency Inf	ormation in case		10240		
<b>1.4 Emerg</b> Medical E Poison Inf	mergency Inf ormation Cen	ormation in case ter Mainz - Pho	ne: +49 (0) 6131 .	19240		
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· Hazard stateme	ents
H302 Harmful	if swallowed.
H315 Causes sh	sin irritation.
H319 Causes se	prious eye irritation.
H341 Suspected	l of causing genetic defects.
H361 Suspected	l of damaging fertility or the unborn child.
· Precautionary	statements
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
· 2.3 Other haza	rds
· Results of PBT	and vPvB assessment

• Results of PBT and vPvB assessment

• **PBT:** PBT - assessment not available.

· **vPvB**: vPvB - assessment not available.

#### **SECTION 3: Composition/information on ingredients**

· 3.1 Chemical characterisation: Substances

· CAS No. Description:

90529-77-4 1,2,3-Propanetriol, glycidyl ethers

- Identification number(s):
- EC number: 292-011-4
- · Description:
- MW: 306.0

## **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact
- Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- · After eye contact

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

## • After swallowing

Wash out mouth. Drink plenty of water and supply fresh air. Seek medical advice if discomfort occurs. Do not induce vomiting!

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

- · Suitable extinguishing agents
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture
- In case of fire formation of toxic vapours and gases is possible. In case of fire, the following can be formed, but not limited to: Hydrogen chloride (HCl)

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Carbon monoxide and carbon dioxide

Phosgene gas

(Traces)

5.3 Advice for firefighters
 Protective equipment: Wear self-contained respiratory protective device.

## **SECTION 6:** Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
Do not inhale vapours.
Avoid contact with the eyes and skin.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Dilute with plenty of water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

## **SECTION 7: Handling and storage**

See Section 13 for disposal information.

• 7.1 Precautions for safe handling Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes and skin.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Provide solvent resistant, sealed floor.
- Information about storage in one common storage facility: Do not store together with strong acids, strong alkalis and strong oxidizing agents. Store away from metals.
- Further information about storage conditions: Avoid contact with air / oxygen.(formation of peroxide). Store receptacle in a well ventilated area. Keep receptacle tightly sealed and store in dry conditions.
- *Keep receptacte tightly sealed and store in ary conditions.*
- 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace: Not required. • DNELs
- Worker: Long term systemic effects, dermal: 10 mg/kg Worker: Long term - local effects, dermal: 0,8 mg/m<sup>2</sup> Worker: Long term - systemic effects, inhalative: 500 mg/m<sup>3</sup>

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The state of the second s	(Contd. of page
PNECs Industrial Sewage Treatment P	
Additional information: The lists that	were valid during the creation were used as basis.
8.2 Exposure controls	
Personal protective equipment	
General protective and hygienic measured	
Keep away from foodstuffs, beverages a	
Immediately remove all soiled and cont	
Wash hands before breaks and at the en	nd of work.
Avoid contact with the eyes and skin.	
Breathing equipment:	
Short term filter device: Filter A/P2.	
Protection of hands:	
Protective gloves.	
	ble and resistant to the product/ the substance/ the preparation.
	on to the glove material can be given for the product/ the preparation
the chemical mixture.	
	consideration of the penetration times, rates of diffusion and th
degradation	J 1 / J JJ
Material of gloves	
The selection of the suitable gloves a	loes not only depend on the material, but also on further marks o
quality and varies from manufacturer to	o manufacturer.
Penetration time of glove material	
	found out by the manufacturer of the protective gloves and has to b
observed.	
	cimum of 15 minutes gloves made of the following materials a
suitable:	
Neoprene gloves	
Neoprene gloves Eye protection:	
Neoprene gloves Eye protection: Safety glasses	
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles.	ing.
Neoprene gloves Eye protection: Safety glasses	ing.
Neoprene gloves <b>Eye protection:</b> Safety glasses Tightly sealed goggles. <b>Body protection:</b> Protective work cloth	
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles.	
Neoprene gloves <b>Eye protection:</b> Safety glasses Tightly sealed goggles. <b>Body protection:</b> Protective work cloth <b>SECTION 9: Physical and chemica</b>	il properties
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemica 9.1 Information on basic physical and	il properties
Neoprene gloves <b>Eye protection:</b> Safety glasses Tightly sealed goggles. <b>Body protection:</b> Protective work cloth <b>SECTION 9: Physical and chemica</b>	il properties
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemica 9.1 Information on basic physical and General Information	il properties
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemica 9.1 Information on basic physical and General Information Appearance:	al properties chemical properties
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour:	al properties chemical properties Liquid
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour:	al properties chemical properties Liquid Yellowish
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold:	Il properties Tchemical properties Liquid Yellowish Odourless
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C:	al properties chemical properties Liquid Yellowish Odourless Not determined.
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition	al properties chemical properties Liquid Yellowish Odourless Not determined. 6 - 8
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point:	al properties chemical properties Liquid Yellowish Odourless Not determined. 6 - 8 undetermined
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range	I properties C chemical properties Liquid Yellowish Odourless Not determined. 6 - 8 undetermined ge: > 180 °C
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point:	I properties Chemical properties Liquid Yellowish Odourless Not determined. 6 - 8 undetermined ge: > 180 °C ca. 175 °C
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Flammability (solid, gaseous)	Il properties Chemical properties Liquid Yellowish Odourless Not determined. 6 - 8 undetermined ge: > 180 °C ca. 175 °C Not applicable.
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point: Flammability (solid, gaseous) Ignition temperature:	I properties         I chemical properties         Liquid         Yellowish         Odourless         Not determined. $6 - 8$ undetermined         ge: > 180 °C         ca. 175 °C         Not applicable.         ca. 270 - 310 °C
Neoprene gloves Eye protection: Safety glasses Tightly sealed goggles. Body protection: Protective work cloth SECTION 9: Physical and chemical 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour threshold: pH-value (10 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Flammability (solid, gaseous)	Il properties Chemical properties Liquid Yellowish Odourless Not determined. 6 - 8 undetermined ge: > 180 °C ca. 175 °C Not applicable.

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· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	1.22 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water at 20 °C:	20 - 30 g/l	
· Organic solvents:	Soluble in many organic solvents	
· Partition coefficient: n-octanol/water:	-1.941.78 log POW (calc.)	
· Viscosity:		
dynamic at 25 °C:	100 - 200 mPas	
kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant informations available

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- Reacts with acids, alkalis and oxidizing agents Polymerisation Reacts with powdered metals
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

• Additional information:

This substance is very reactiv. In the presence of strong acids and bases or non-ferrous metals hazardous, maybe explosive polymerisation may occur. Hazardous or explosive polymerisation may also occur in case of overheating.

### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

• Acute toxicity

Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
	LC50/96h	50 - 100 mg/l (Forelle)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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• Additional toxicological information: AMES-Test: Mutagenic effect OECD 471 Salmonella typhimurium

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity

- Suspected of causing genetic defects.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- Suspected of damaging fertility or the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

EC50/48h > 100 mg/l (Daphnia magna)

- · 12.2 Persistence and degradability No further relevant information available.
- · Other information: The product is not easily biodegradable.
- · 12.3 Bioaccumulative potential
- Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- *PBT*: *PBT* assessment not available.
- · **vPvB**: vPvB assessment not available.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14: Transport information		
14.1 UN-Number		
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR	Void	
ADN, IMDG, IATA	Void	

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14.3 Transport hazard class(es)	
ADR	
Class	Void
Label	
ADN/R Class:	Void
IMDG, IATA	
Class	Void
Label	-
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN ''Model Regulation'':	Void

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations

• Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

· Contact: +49 6221 13840-35

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 (Contd. on page 8) GB

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Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 • \* Data compared to the previous version altered. (Contd. of page 7)

GB