

according to UK REACH Regulation

Revision date: 08.08.2023	Product code: 13177.x>	xxxx Page 1 of
SECTION 1: Identification of the	ne substance/mixture and of the comp	pany/undertaking
1.1. Product identifier		
Glutraldehyde Formaldehyd	e Cacodylate Buffer for EM	
UFI:	TAG5-H1V8-X00D-8QV6	
1.2. Relevant identified uses of th	e substance or mixture and uses advised	l against
Use of the substance/mixture		
Use as laboratory reagent.		
Uses advised against		
Any non-intended use.		
1.3. Details of the supplier of the	safety data sheet	
Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.	de
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Ge	rmany, Tel: +49(0)6131/19240
number:		

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling glutaraldehyde Paraformaldehyde

Sodium dimethylarsinate
Signal word: Danger

Pictograms:



Hazard statements

H315 H317 Causes skin irritation. May cause an allergic skin reaction.



Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023	Product code: 13177.xxxxx	Page 2 of 15			
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
H335	May cause respiratory irritation.				
H351	Suspected of causing cancer.				
H412	Harmful to aquatic life with long lasting effects.				
Precautionary statemer	its				
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				

- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml



Pictograms:



Hazard statements

H317-H334-H351-H412

Precautionary statements

P261-P280-P304+P340-P342+P311

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 3 of 15

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regu			
111-30-8	glutaraldehyde			1 - < 5 %
	203-856-5	605-022-00-X	1-2119455549-26-	
		kin Corr. 1B, Eye Dam. 1, Resp hronic 2; H330 H301 H314 H31	. Sens. 1, Skin Sens. 1A, STOT SE 8 H334 H317 H335 H400 H411	
30525-89-4	Paraformaldehyde	1 - < 5 %		
	200-001-8			
	Flam. Sol. 2, Carc. 2, Acute 7 3; H228 H351 H332 H302 H3			
124-65-2	Sodium dimethylarsinate	1 - < 5 %		
	204-708-2	033-002-00-5		
	Acute Tox. 3, Acute Tox. 3, A			
67-56-1	methanol			< 0.1 %
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Ac			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc.	Limits, M-factors and ATE				
111-30-8	203-856-5	glutaraldehyde	1 - < 5 %			
	inhalation: LC50 = 0,5 mg/l (vapours); inhalation: LC50 = 0,28 mg/l (dusts or mists); dermal: LD50 = >1000 mg/kg; oral: LD50 = 135 mg/kg STOT SE 3; H335: >= 0,5 - < 5 Aquatic Acute 1; H400: M=1					
30525-89-4	200-001-8	1 - < 5 %				
	inhalation: LC >592 mg/kg					
124-65-2	204-708-2	Sodium dimethylarsinate	1 - < 5 %			
	inhalation: AT 2000 mg/kg	E = 3 mg/l (vapours); inhalation: LC50 = 5,12 mg/l (dusts or mists); oral: LD50 =				
67-56-1	200-659-6	200-659-6 methanol				
		E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = 2528 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >=				

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: glutaraldehyde C.A.S. 111-30-8

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of



Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxx

Page 4 of 15

respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. See protective measures under point 7 and 8. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the



according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxx

Page 5 of 15

recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 4-8°C Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-30-8	Glutaraldehyde	0.05	0.2		TWA (8 h)	WEL
		0.05	0.2		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
57-50-1	Sucrose	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL

according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 6 of 15

DNEL/DMEL values

CAS No	Substance			
DNEL type	Oubsidince	Exposure route	Effect	Value
67-56-1	methanol			
Worker DNE	EL, acute	inhalation	local	260 mg/m ³
Worker DNE	EL, acute	dermal	systemic	40 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	260 mg/m ³
Worker DNE	EL, long-term	inhalation	local	260 mg/m ³
Worker DNEL, long-term		dermal	systemic	40 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	260 mg/m ³
PNEC valu	es			
CAS No	Substance			
Environmen	tal compartment			Value

Environment	Environmental compartment					
67-56-1	methanol					
Freshwater	20,8 mg/l					
Marine water		2,08 mg/l				
Marine water (intermittent releases)		1540 mg/l				
Freshwater sediment		77 mg/kg				
Marine sediment		7,7 mg/kg				
Micro-organisms in sewage treatment plants (STP)		100 mg/l				
Soil		3,18 mg/kg				

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use extractor hood (laboratory). Process within closed systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Wear safety glasses; chemical goggles (if splashing is possible). EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h



according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxx

Page 7 of 15

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Insufficient ventilation.

Release of: product.

exceeding exposure limit values

Suitable respiratory protective equipment:

Combination filtering device (EN 14387); Type : A-P3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless, clear	
Odour:	stinging	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		7-8
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1 g/cm³
Relative vapour density:		not determined
Particle characteristics:		not applicable
0. Other information		

9.2. Other information

Information with regard to physical hazard classes



Glutraldehyde Formaldehy	de Cacodylate Buffer for EM
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Revision date: 08.08.2023	Product code: 13177.xxxxx	Page 8 of 15
Explosive properties		
The product is not: Explosive. none		
Sustaining combustion:	Not sustaining combustion	
Self-ignition temperature		
Gas:	not determined	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Viscosity / dynamic:	not determined	
Flow time:	not determined	

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) 2723 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 17,97 mg/l; ATE (inhalation dust/mist) 7,710 mg/l

according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 9 of 15

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
111-30-8	glutaraldehyde								
	oral	LD50 mg/kg	135	Rat	GESTIS				
	dermal	LD50 mg/kg	>1000	Rabbit	GESTIS				
	inhalation (4 h) vapour	LC50	0,5 mg/l	Rat					
	inhalation (4 h) dust/mist	LC50	0,28 mg/l	Rat		OECD 403			
30525-89-4	Paraformaldehyde			_					
	oral	LD50 mg/kg	>592	Rat	Merck KGaA				
	inhalation (4 h) vapour	LC50	1,1 mg/l	Rat	TOXNET				
	inhalation dust/mist	ATE	1,5 mg/l						
124-65-2	Sodium dimethylarsinate								
	oral	LD50 mg/kg	2000	Rat	suppliers SDS.				
	inhalation vapour	ATE	3 mg/l						
	inhalation (4 h) dust/mist	LC50	5,12 mg/l	Monkey	suppliers SDS.				
67-56-1	methanol	-							
	oral	LD50 mg/kg	2528	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	17100	Rabbit	ECHA Dossier				
	inhalation vapour	ATE	3 mg/l						
	inhalation dust/mist	ATE	0,5 mg/l						

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (glutaraldehyde) May cause an allergic skin reaction. (glutaraldehyde; Paraformaldehyde)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Paraformaldehyde) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (glutaraldehyde)

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.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 10 of 15

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
111-30-8	glutaraldehyde	glutaraldehyde								
	Acute fish toxicity	LC50 mg/l	12,2	96 h	sheepshead minnows	ECHA				
	Acute crustacea toxicity	EC50	5,1 mg/l		Daphnia pulex (water flea)	GESTIS				
30525-89-4	Paraformaldehyde									
	Acute fish toxicity	LC50	46 mg/l	96 h	Oncorhynchus mykiss	ECOTOX Database				
124-65-2	Sodium dimethylarsinate									
	Acute fish toxicity	LC50 mg/l	>152	96 h	Oncorhynchus mykiss	suppliers SDS.				
	Acute crustacea toxicity	EC50 mg/l	>61,6	48 h	Daphnia magna	suppliers SDS.				
67-56-1	methanol									
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier				
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	ECHA Dossier				
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	ECHA Dossier	OECD 202			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
30525-89-4	Paraformaldehyde			
	Biodegradability	97,4 %	5	
67-56-1	methanol			
	other guideline	96%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-30-8	glutaraldehyde	-0,18
124-65-2	Sodium dimethylarsinate	-1,55
67-56-1	methanol	-0,77



Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 11 of 15

BCF

CAS No	Chemical name	BCF	Species	Source
111-30-8	glutaraldehyde	3,16		
67-56-1	methanol	<10		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

The product has not been tested.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)



according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM			
Revision date: 08.08.2023	Product code: 13177.xxxxx	Page 12 of 15	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
Marine transport (IMDG)			
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user			
Refer to section 6-8			
14.7. Maritime transport in bulk according	to IMO instruments		
not relevant			
SECTION 15: Regulatory information			
15.1. Sofety, bealth and environmental rea	ulations/legislation specific for the substance or mixture		
	ulations/legislation specific for the substance of mixture		
EU regulatory information			
Authorisations (REACH, annex XIV):			
Substances of very high concern, SV	HC (REACH, article 59):		
glutaraldehyde			
Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 19, Entry 40, Entry 75			
2010/75/EU (VOC):	2,479 % (24,794 g/l)		
2004/42/EC (VOC):	2,479 % (24,794 g/l)		
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)		
(SEVESO III):			
Additional information			
The mixture is classified as hazardou	The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juv	/enile	
······	work protection guideline' (94/33/EC).	· - · · · · ·	
Water hazard class (D):	3 - highly hazardous to water		
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.		
15.2. Chemical safety assessment			
	nixture a chemical safety assessment has been carried out:		
glutaraldehyde			
methanol			
SECTION 4C: Other information			

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,9,11,12,13,15,16.



according to UK REACH Regulation

Glutraldehyde Formaldehy	de Cacodylate Buffer for EM
--------------------------	-----------------------------

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 13 of 15

Rev. 1.0; Initial release: 05.05.2017 Rev. 2,0; 08.08.2023; general adjustment(s), revision of the classification Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: dav(s) EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h[·] hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe UN: United Nations VOC: Volatile Organic Compounds VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

Revision No: 2,0 - Replaces version: 1,00



according to UK REACH Regulation

Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 14 of 15

EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

		l ,
	H225	Highly flammable liquid and vapour.
	H228	Flammable solid.
	H301	Toxic if swallowed.
	H302	Harmful if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H330	Fatal if inhaled.
	H331	Toxic if inhaled.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H351	Suspected of causing cancer.
	H370	Causes damage to organs.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	EUH071	Corrosive to the respiratory tract.
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Glutraldehyde Formaldehyde Cacodylate Buffer for EM

Revision date: 08.08.2023

Product code: 13177.xxxxx

Page 15 of 15

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)