Trade name: CyLyse™ FX

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

CyLyse™ FX

Product no.: BD303500, AX032552

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

For in-vitro diagnosis

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Sysmex Partec GmbH Arndtstraße 11 a-b 02826 Görlitz

Telephone no. +49 3581 8746-0 Fax no. +49 3581 8746-70 e-mail info@sysmex-partec.com

Information provided by / telephone Regulatory Affairs, Tel. +49 3581 8746-0

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Carc. 1B; H350 Eye Irrit. 2; H319 Muta. 2; H341 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373 STOT SE 2; H371 STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms





Signal word

Dangei

Hazardous component(s) to be indicated on label:

diethylene glycol formaldehyde methanol

Hazard statement(s)

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H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects
H350 May cause cancer.

H371 May cause damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

Supplemental label elements

"Restricted to professional users"

2.3 Other hazards

PBT assessment No data available. vPvB assessment No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additio	nal information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concer	ntration	%
1	diethylene glycol		pls. ref	er to footnote (2)	
	111-46-6 203-872-2 603-140-00-6 01-2119457857-21	Acute Tox. 4; H302 STOT RE 2; H373	>=	20.00 - <= 30.00	wt%
2	formaldehyde				
	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Carc. 1B; H350 Muta. 2; H341 Skin Corr. 1B; H314 Skin Sens. 1; H317	<	15.00	wt%
3	methanol				
	67-56-1 200-659-6 603-001-00-X 01-2119433307-44	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Flam. Liq. 2; H225 STOT SE 1; H370	<	5.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Skin Sens. 1; H317: C >= 0.2% Eye Irrit. 2; H319: C >= 5% STOT SE 3; H335: C >= 5% Skin Irrit. 2; H315: C >= 5% Skin Corr. 1B; H314: C >= 25%	-	-
3	-	STOT SE 2; H371: C >= 3% STOT SE 1; H370: C >= 10%	-	-

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative

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3 300 mg/kg bodyweight

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off with water. Rinse with plenty of water.

After eve contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Foam; Carbon dioxide; Extinguishing powder

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	diethylene glycol	111-46-6		203-872-2	
	List of approved workplace exposure limits (WELs) / EH40				
	2,2'-Oxydiethanol				
	WEL long-term (8-hr TWA reference period)	101	mg/m³	23	ppm
2	formaldehyde	50-00-0		200-001-8	
	List of approved workplace exposure limits (WELs) / EH40				
	Formaldehyde				
	WEL short-term (15 min reference period)	2.5	mg/m³	2	ppm
	WEL long-term (8-hr TWA reference period)	2.5	mg/m³	2	ppm
	2004/37/EC				
	Formaldehyde				
	WEL short-term (15 min reference period)	0.74	mg/m³	0.6	ppm
	WEL long-term (8-hr TWA reference period)	0.37	mg/m³	0.3	ppm
	Skin resorption / sensibilisation	dermal sensiti			
	Comments		0,62 mg/m3 or 0		
			nbalming sectors		24
3	methanol	67-56-1		200-659-6	
	2006/15/EC				
	Methanol				
	WEL long-term (8-hr TWA reference period)	260	mg/m³	200	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH40				
	Methanol				
	WEL short-term (15 min reference period)	333	mg/m³	250	ppm
	WEL long-term (8-hr TWA reference period)	266	mg/m³	200	ppm
	Comments	Sk			

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC n	0
NO	1	1- "	1 = **		0
	Route of exposure	Exposure time	Effect	Value	
1	diethylene glycol			111-46-6	
				203-872-2	
	dermal	Long term (chronic)	systemic	43	mg/kg/day
	inhalative	Long term (chronic)	local	60	mg/m³
	inhalative	Long term (chronic)	systemic	44	mg/m³
2	formaldehyde			50-00-0	
				200-001-8	
	dermal	Long term (chronic)	systemic	240	mg/kg bw/day
	dermal	Long term (chronic)	local	37	μg/cm²
	inhalative	Long term (chronic)	systemic	9	mg/m³
	inhalative	Long term (chronic)	local	0.375	mg/m³
3	methanol			67-56-1	
				200-659-6	
	dermal	Short term (acut)	systemic	20	mg/kg/day
	dermal	Long term (chronic)	systemic	20	mg/kg/day
	inhalative	Short term (acut)	systemic	130	mg/m³

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inhalative	Short term (acut)	local	130	mg/m³
inhalative	Long term (chronic)	systemic	130	mg/m³
inhalative	Long term (chronic)	local	130	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC r	10
	Route of exposure	Exposure time	Effect	Value	
1	diethylene glycol			111-46-6	
				203-872-2	
	dermal	Long term (chronic)	systemic	21	mg/kg/day
	inhalative	Long term (chronic)	local	12	mg/m³
	inhalative	Long term (chronic)	systemic	12	mg/m³
2	formaldehyde			50-00-0	
				200-001-8	
	oral	Long term (chronic)	systemic	4.1	mg/kg bw/day
	dermal	Long term (chronic)	systemic	102	mg/kg bw/day
	dermal	Long term (chronic)	local	12	μg/cm²
	inhalative	Long term (chronic)	systemic	3.2	mg/m³
	inhalative	Long term (chronic)	local	0.1	mg/m³
3	methanol			67-56-1	
				200-659-6	
	oral	Long term (chronic)	systemic	4	mg/kg/day
	oral	Short term (acut)	systemic	4	mg/kg/day
	dermal	Short term (acut)	systemic	4	mg/kg/day
	dermal	Long term (chronic)	systemic	4	mg/kg/day
	inhalative	Short term (acut)	systemic	26	mg/m³
	inhalative	Short term (acut)	local	26	mg/m³
	inhalative	Long term (chronic)	systemic	26	mg/m³
	inhalative	Long term (chronic)	local	26	mg/m³

PNEC values

	i NEO values			
No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	diethylene glycol		111-46-6	
			203-872-2	
	water	fresh water	10	mg/L
	water	marine water	1	mg/L
	water	fresh water sediment	20.9	mg/kg dry weight
	water	marine water sediment	2.09	mg/kg dry weight
	water	Aqua intermittent	10	mg/L
	soil	-	1.53	mg/kg dry weight
	sewage treatment plant	-	199.5	mg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Trade name: CyLyse™ FX

State of aggregation

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liquid		
Form		
liquid		
Colour		
clear; colourless		
Odour		
none		
pH value		
No data available		
Boiling point / boiling range		
No data available		
Melting point/freezing point		
No data available		

Decomposition temperature No data available

Flash point No data available

Ignition temperature

No data available Flammability

No data available

Lower explosion limit No data available

Upper explosion limit No data available

Vapour pressure

No data available Relative vapour density

No data available Relative density

No data available

Density No data available

Solubility No data available

No	Substance name		CAS no.		EC no.	
1	formaldehyde		50-00-0		200-001-8	
log F	Pow			0.35		
Refe	rence temperature			25	°C	
Meth	od	QSAR				
Sour	ce	ECHA				
2	methanol		67-56-1		200-659-6	
log F	Pow			-0.77		
Sour	ce	ECHA				

Kinematic viscosity No data available Particle characteristics

9.2 Other information

No data available

Other information No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

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10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5 Incompatible materials

Oxidizing agents; strong acids; strong bases

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acut	Acute oral toxicity (result of the ATE calculation for the mixture)			
No	Product Name			
1	CyLyse™ FX			
	Product no.: BD303500, AX032552			
ATE	(Mixture)	483.33 mg/kg		
Meth	od	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex		
		I, part 3, section 3.1.3.6.		

Acute oral toxicity No data available

Acut	Acute dermal toxicity (result of the ATE calculation for the mixture)			
No	Product Name			
1	CyLyse™ FX			
	Product no.: BD303500, AX032552			
Com	ments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).		

Acut	e dermal toxicity				
No	Substance name		CAS no.		EC no.
1	diethylene glycol		111-46-6		203-872-2
LD50				13300	mg/kg bodyweight
Spec	ies	rabbit			
Sour	ce	ECHA			
2	methanol		67-56-1		200-659-6
LD50				17100	mg/kg bodyweight
Spec	ies	rabbit			
Sour	ce	ECHA			

Acut	Acute inhalational toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	CyLyse™ FX				
	Product no.: BD303500, AX032552				
Com	nments	The result of the applied calculation method according to the European			
		Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is			
		outside the values that imply a classification / labelling of this mixture			
		according to table 3.1.1 defining the respective categories (ATE for inhalation:			
		> 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).			

Acut	e inhalational toxicity				
No	Substance name	CAS	no.	EC no.	
1	diethylene glycol	111-4	16-6	203-872-2	
LC50)	>	4.6	mg/l	
Dura	tion of exposure		4	h	
State	e of aggregation	Dust/mist			
Spec	ties	rat			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available d	ata, the classification crit	eria are not met.	

Skin	corrosion/irritation			
No	Substance name	CAS no.	EC no.	

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1 diethylene glycol	111-46-6	203-872-2
Species	rabbit	
Source	ECHA	
Evaluation	non-irritant	
2 formaldehyde	50-00-0	200-001-8
Species	rabbit	
Method	OECD 404	
Source	ECHA	
Evaluation	corrosive	
Evaluation/classification	Based on available data, the	classification criteria are met.
Serious eye damage/irritation		
No Substance name	CAS no.	EC no.
1 diethylene glycol	111-46-6	203-872-2
Species	rabbit	200 0/2 2
Source	ECHA	
Evaluation	non-irritant	
	Horr irritant	
Respiratory or skin sensitisation		
No Substance name	CAS no.	EC no.
1 diethylene glycol	111-46-6	203-872-2
Route of exposure	Skin	
Species	guinea pig	
Method	67/548/EEC, B.6	
Source	ECHA	
Evaluation	non-sensitizing	
2 formaldehyde	50-00-0	200-001-8
Route of exposure	Skin	
Species	guinea pig	
Method	OECD 406	
Source	ECHA	
Evaluation	sensitizing	
Evaluation/classification	Based on available data, the	classification criteria are met.
Germ cell mutagenicity		
No Substance name	CAS no.	EC no.
	CAS IIU.	
1 diethylene glycol	111-46-6	203-872-2
		-
1 diethylene glycol	111-46-6 ECHA	-
1 diethylene glycol Source Evaluation/classification 2 formaldehyde	111-46-6 ECHA	203-872-2
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i	203-872-2 classification criteria are not met. 200-001-8
1 diethylene glycol Source Evaluation/classification 2 formaldehyde	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i	203-872-2 classification criteria are not met. 200-001-8
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination	ECHA Based on available data, the	203-872-2 classification criteria are not met. 200-001-8
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium	203-872-2 classification criteria are not met. 200-001-8
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA	203-872-2 classification criteria are not met. 200-001-8
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA	203-872-2 classification criteria are not met. 200-001-8 n bacteria
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the	203-872-2 classification criteria are not met. 200-001-8 n bacteria classification criteria are met.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the	203-872-2 classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6	203-872-2 classification criteria are not met. 200-001-8 n bacteria classification criteria are met.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6	203-872-2 classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6	203-872-2 classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity	I11-46-6 ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met. EC no.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol	ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Source Source Source Source Source Source Source Output Source	I11-46-6 ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met. EC no. 203-872-2
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Evaluation/classification	I11-46-6 ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met. EC no. 203-872-2 classification criteria are not met.
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Evaluation/classification 2 formaldehyde	I11-46-6 ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met. EC no. 203-872-2
1 diethylene glycol Source Evaluation/classification 2 formaldehyde Type of examination Species Method Source Evaluation/classification Reproduction toxicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Evaluation/classification Carcinogenicity No Substance name 1 diethylene glycol Source Evaluation/classification 2 formaldehyde Route of exposure	T11-46-6 ECHA Based on available data, the 50-00-0 in vitro gene mutation study i Salmonella typhimurium OECD 471 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the CAS no. 111-46-6 ECHA Based on available data, the	classification criteria are not met. 200-001-8 n bacteria classification criteria are met. EC no. 203-872-2 classification criteria are not met. EC no. 203-872-2 classification criteria are not met.
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11.2 Information on other hazards

Trade name: CyLyse™ FX

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Endocrine disrupting properties

No data available. Other information No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	city to fish (acute)			
No	Substance name	CAS no.		EC no.
1	diethylene glycol	111-46-6		203-872-2
LC5	0		75200	mg/l
Dura	ation of exposure		96	h
Spec	cies	Pimephales promelas		
Sour	rce	ECHA		
2	formaldehyde	50-00-0		200-001-8
LC5			24.1	mg/l
Dura	ation of exposure		96	h ¯
Spec	cies	Pimephales promelas		
Meth	nod	OECD 203		
Sour	rce	ECHA		
Eval	uation/classification	Based on available data, the o	lassification cr	iteria are not met.
3	methanol	67-56-1		200-659-6
LC5	0		15400	mg/l
Dura	ation of exposure		96	h
Spec	cies	Lepomis macrochirus		
Meth	nod	EPA-660 / 3-75-009		
Sour	rce	ECHA		

Toxicity to fish (chronic) No data available

Toxic	city to Daphnia (acute)		
No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
EC50		5.8	mg/l
Dura	tion of exposure	48	h
Spec Meth Sour	od	Daphnia magna OECD 202 ECHA	
	uation/classification	Based on available data, the classification	
2	methanol	67-56-1	200-659-6
EC50		22200	mg/l
Dura	tion of exposure	48	h
Spec	ies	Daphnia magna	
Meth	od	OECD 202	
Sour	ce	ECHA	

Toxicity to Daphnia (chronic) No data available

Toxi	city to algae (acute)				
No	Substance name	CAS no.		EC no.	
1	formaldehyde	50-00-0		200-001-8	
EC5	0		3.48	mg/l	
Dura	ition of exposure		72	h	
Spec	cies	Desmodesmus subspicatus			
Meth	nod	OECD 201			
Sour	rce	ECHA			
Eval	uation/classification	Based on available data, the class	sification crite	eria are not met.	
2	methanol	67-56-1		200-659-6	
EC5	0	appr.	22000	mg/l	
Dura	ition of exposure		96	h	
Spec	cies	Pseudokirchneriella subcapitata			
Meth	nod	OECD 201			
Sour	ce	ECHA			

Toxic	Toxicity to algae (chronic)				
No	Substance name	CAS no.	EC no.		
1	diethylene glycol	111-46-6	203-872-2		
NOE	С	2700	mg/l		

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Duration of exposure	8	day(s)
Species	Scenedesmus quadricauda	
Source	ECHA	

Bact	Bacteria toxicity					
No	Substance name	CA	S no.	EC no.		
1	diethylene glycol	11°	-46-6	203-872-2		
EC20)	>	1.995	mg/l		
Dura	tion of exposure		0.5	h ¯		
Spec	ies	activated sludge				
Method		ISO 8192				
Sour	ce	ECHA				

12.2 Persistence and degradability

<u> </u>	t ersistence and degradability					
Biod	egradability					
No	Substance name	CAS no.		EC no.		
1	diethylene glycol	111-46-6		203-872-2		
Type		DOC decrease				
Value	•	90	- 100	%		
Dura	tion		28	day(s)		
Meth	od	OECD 301 B				
Sour		ECHA				
Evalu	ıation	readily biodegradable				
2	formaldehyde	50-00-0		200-001-8		
Type		aerobic biodegradation				
Value			99	%		
Dura			28	d		
Meth	od	OECD 301 A				
Sour	ce	ECHA				
Evalu	ıation	readily biodegradable				
3	methanol	67-56-1		200-659-6		
Type		BOD				
Value			95	%		
Dura	tion		20	day(s)		
Sour	ce	ECHA				
Evalu	ıation	readily biodegradable				

12.3 Bioaccumulative potential

Bioc	Bioconcentration factor (BCF)				
No	Substance name	CAS no.	EC no.		
1	diethylene glycol	111-46-6	203-872-2		
BCF		100			
Species		Leuciscus idus			
Source		ECHA			

Partition coefficient n-octanol/water (log value)						
No	Substance name		CAS no.		EC no.	
1	formaldehyde		50-00-0		200-001-8	
log Pow				0.35		
Reference temperature				25	°C	
Method		QSAR				
Source		ECHA				
2	methanol		67-56-1		200-659-6	
log Pow				-0.77		
Source		ECHA				

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Trade name: CyLyse™ FX

Current version: 4.0.0, issued: 06.09.2023 Reglaced version: 3.2.1, issued: 04.09.2023 Region: GB

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES					
The	The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3				
The	The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				
No	Substance name	CAS no.	EC no.	No	
1	formaldehyde	50-00-0	200-00°	1-8 28, 72, 75, 77	
2	methanol	67-56-1	200-659	9-6 69, 75	

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

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Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H370 Causes damage to organs.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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