BIO-25033 BIO-25034

MangoMix, 2x Safety Data Sheet





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 12/4/2016 Revision date: 2/8/2017 Supersedes: 12/20/2016 Version: 1.2

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

1.1.	Product identifier			
Produc	Product form			
Produc	t name			
Cat. no).			

- : Mixture
- : MangoMix™ : BIO-25033,BIO-25034

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

- : Industrial use Professional use
- Use of the substance/mixture
- : Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Meridianlifescience / Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44 (0)20 8830 5300 F: +44 (0)20 8452 2822 E-mail: info@meridianlifescience.com

1.4. Emergency telephone number

Emergency number

: +44 (0)1865 407 333 – English speaking (24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	(CAS No) 56-81-5 (EC No.) 200-289-5	0.1 - 1	Not classified

Full text of H-statements: see section 16

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SECTION 4. First aid management	
SECTION 4: First aid measures	
4.1. Description of first aid measures	Nover give eputhing by mouth to an unconceive person. If you feel upwell, eack medical
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/injuries	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after eye contact	: May cause slight irritation to eyes.
4.3. Indication of any immediate medical a	ttention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the subs	stance or mixture
Fire hazard	Not flammable.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Hydrogen chloride.
5.3. Advice for firefighters	
Firefighting instructions	 Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.
SECTION 6: Accidental release measu	Ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
	: Wear suitable protective clothing and gloves.
	Avoid contact with eyes, skin and clothing.
6.2. Environmental precautions	
Notify authorities if large amounts of the product e	
6.3. Methods and material for containmen	t and cleaning up
Methods for cleaning up	: Absorb with non-combustible material (sand or similar) and transfer to containers for later disposal.
6.4. Reference to other sections	
SECTION 8: Exposure controls/personal protectio	n. SECTION 13: Disposal considerations.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials	Strong oxidizing agents.
0/10/00.17	

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7.3. Specific end use(s)

Laboratory use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)		
United Kingdom	Local name	Glycerol
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ mist

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

0.4 Information on bools about all a	al properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: Odourless.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: Not applicable.	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: ≈ 1 (Water = 1)	
Solubility	: Water: Miscible	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: Not explosive.	

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ccording to Regulation (EC) No. 1907/2006 (R	
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Stable under normal conditions.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	actions
None known.	
10.4. Conditions to avoid	
Extremely high or low temperatures.	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition p	
10.6. Hazardous decomposition p Carbon monoxide. Carbon dioxide. Nitro	ogen oxides. Hydrogen chloride.
10.6. Hazardous decomposition p Carbon monoxide. Carbon dioxide. SECTION 11: Toxicological inf	ogen oxides. Hydrogen chloride.
10.6.Hazardous decomposition pCarbon monoxide. Carbon dioxide. NitroSECTION 11: Toxicological in11.1.Information on toxicological	ogen oxides. Hydrogen chloride. formation I effects
10.6. Hazardous decomposition p Carbon monoxide. Carbon dioxide. SECTION 11: Toxicological inf	ogen oxides. Hydrogen chloride. formation I effects : Not classified
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10.6. Hazardous decomposition p Carbon monoxide. Carbon dioxide. Nitro SECTION 11: Toxicological inf 11.1. Information on toxicological Acute toxicity Additional information Glycerol (56-81-5) LD50 oral rat LD50 dermal LC50 inhalation rat (mg/l) Skin corrosion/irritation Additional information	bgen oxides. Hydrogen chloride. formation I effects : Not classified : Based on available data, the classification criteria are not met 27200 mg/kg 56750 mg/kg (Guinea pig) > 2.75 mg/l/4h
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Potential adverse human health effects and symptoms

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated

Additional information

Reproductive toxicity

Additional information

Additional information

Additional information

Additional information

Aspiration hazard

exposure)

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	: Not classified.	
Glycerol (56-81-5)		
LC50 fish	54000 mg/l 96 Hours (Salmo gairdneri)	

: Based on available data, the classification criteria are not met

: Based on available data, the classification criteria are not met

: Based on available data, the classification criteria are not met

: Based on available data, the classification criteria are not met

: Based on available data, the classification criteria are not met

: Not expected to present a significant hazard under anticipated conditions of normal use.

: Not classified

: Not classified

: Not classified

: Not classified

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12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
Mang	oMix™	
Ecolo	gy - soil	Miscible with water.
12.5.	Results of PBT and vPvB assessment	
Mang	oMix™	
This s	ubstance/mixture does not meet the PBT c	riteria of REACH regulation, annex XIII
This s	ubstance/mixture does not meet the vPvB	criteria of REACH regulation, annex XIII
40.0		

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
	: Not regulated
Transport hazard class(es) (IMDG)	
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list ≥ 0,1 % / SCL Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

1.1		Cat. no.	Modified		
Abbreviatio	ons and acronyms:				
	ADR (Accord européen	relatif au transport inf	ternational des marchandises	Dangereuses par Route)	
	ATE (Acute Toxicity Es	imate)			
	CAS (Chemical Abstrac	ts Service) number			
	CLP (Classification, La	eling and Packaging))		
	DNEL (Derived No effe	ct Limit)			
	EC (European Commu	nity)			
	EC50 (Effective Concer	ntration 50%)			
	EN (European Norm)				
	IARC (International Age	ency for Research on	Cancer)		
	IATA (International Air	Fransport Association)		
	IBC (Intermediate Bulk	Container)			
	IMDG (International Ma	ritime Dangerous Goo	ods Code)		
	IMO (International Mari	ime Organisation)			
	LC50 (Lethal Concentra	ation 50%)			
	LD50 (Lethal Dose 50%	o)			
	MAC (Maximal Allowed	Concentration)			
	O/W (Oil-in-Water (che	nistry))			
	OECD (Organisation fo	r Economic Co-operat	tion and Development)		
	PBT (Persistent, Bioaco	cumulative and Toxic)			
2/12/2017		EN (English)			6/7

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	PMcc (Pensky-Martens Closed Cup test)		
	PNEC (Predicted No Effect Concentration)		
	REACH (Registration, Evaluation and Authorisation of CHemicals)		
	RID (Règlement concernant le transport international ferroviaire de marchandises)		
	STEL (Short Term Exposure Limit)		
	TWA (Time Weighted Average)		
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)		
	vPvB (very Persistent and very Bioaccumulative)		
Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substance mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amen Regulation (EC) No 1907/2006.			
Other information	her information : None.		

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/12/2016 Revision date: 12/20/2016 Supersedes: 7/12/2016 Version: 1.1

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

		e substance/mixture and of the company/undertaking
1.1.	Product identifier	
Product form		: Mixture
Product name		: 50mM MgCl2
Cat. no.		: BIO-83005, BIO-83020, BIO-87005, BIO-87020, BIO-88005, BIO-88020
1.2.	Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Industrial/Professional use spec		: Industrial use Professional use
Use of t	he substance/mixture	: Buffer solution
1.2.2.	Uses advised against	
No addi	tional information available	
Humbe Londor NW2 6	1	
F: +44	(0)20 8830 5300 (0)20 8452 2822 info@meridianlifescience.com	
1.4.	Emergency telephone number	
Emerge	ncy number	: +44 (0)1865 407 333 – English speaking (24 hours, 7 days)
SECT	ION 2: Hazards identificati	on
2.1.	Classification of the substance	
Not clas Advers	ication according to Regulation (ssified e physicochemical, human healt itional information available	
2.2.		
	Label elements Iling obligation.	
2.3.	Other hazards	
This sul	bstance/mixture does not meet the	PBT criteria of REACH regulation, annex XIII
This sul	bstance/mixture does not meet the	vPvB criteria of REACH regulation, annex XIII
SECT	ION 3: Composition/inforn	nation on ingredients
3.1.	Substance	
J. I.	Substance	

3.1.

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTIC	CTION 4: First aid measures		
4.1.	Description of first aid measures		
First-aid n	neasures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	

	ith its amendment Regulation (EU) 2015/830
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washe with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritatio persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after eye contact	: May cause slight irritation to eyes.
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Not flammable.
Hazardous decomposition products in case of	: None known.
fire	
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.
SECTION 6: Accidental release mea	
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing and gloves.
0	Wear suitable protective clothing and gloves.Avoid contact with eyes, skin and clothing.
Protective equipment Emergency procedures	
Protective equipment Emergency procedures 6.2. Environmental precautions	: Avoid contact with eyes, skin and clothing.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product	: Avoid contact with eyes, skin and clothing. enters sewers or public waters.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containme	: Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containme	: Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containment Methods for cleaning up	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containme Methods for cleaning up 6.4. Reference to other sections	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections SECTION 8: Exposure controls/personal protect	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containme Methods for cleaning up 6.4. Reference to other sections SECTION 8: Exposure controls/personal protect SECTION 7: Handling and storage	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections SECTION 8: Exposure controls/personal protect SECTION 7: Handling and storage 7.1. Precautions for safe handling	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. ion. SECTION 13: Disposal considerations.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections SECTION 8: Exposure controls/personal protect SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. ion. SECTION 13: Disposal considerations. Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Protective equipment Emergency procedures 6.2. Environmental precautions Notify authorities if large amounts of the product 6.3. Methods and material for containme Methods for cleaning up 6.4. Reference to other sections SECTION 8: Exposure controls/personal protect SECTION 7: Handling and storage	 Avoid contact with eyes, skin and clothing. enters sewers or public waters. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. ion. SECTION 13: Disposal considerations.
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8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical an	d che	mical properties
Physical	state	:	Liquid
Colour		:	Colourless.
Odour		:	Odourless.
Odour th	reshold	:	No data available
рН		:	No data available
Relative	evaporation rate (butylacetate=1)	:	No data available
Melting p	point	:	No data available
Freezing	point	:	No data available
Boiling p	oint	:	Not applicable.
Flash po	int	:	No data available
Auto-ign	ition temperature	:	No data available
Decomp	osition temperature	:	No data available
Flammal	bility (solid, gas)	:	Not applicable
Vapour p	pressure	:	No data available
Relative	vapour density at 20 °C	:	No data available
Relative	density	:	≈ 1 (Water = 1)
Solubility	/	:	Water: Miscible
Log Pow	,	:	No data available
Viscosity	v, kinematic	:	No data available
Viscosity	<i>r</i> , dynamic	:	No data available
Explosiv	e properties	:	Not explosive.
Oxidising	g properties	:	No data available
Explosiv	e limits	:	No data available
9.2.	Other information		

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

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10.2.	Chemical stability		
Stable u	inder normal conditions.		
10.3.	Possibility of hazardous reactions		
None kr	iown.		
10.4.	Conditions to avoid		
Extremely high or low temperatures.			
10.5.	Incompatible materials		
Strong oxidizing agents.			
10.6.	Hazardous decomposition products		

None known.

SECTION 11: Toxicological informat	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use.
OFOTION 40. Feels vised information	

SECT	ON 12: Ecological information			
12.1.	Toxicity			
Ecology	- water	Not classified.		
12.2.	Persistence and degradability			
No addit	ional information available			
12.3.	Bioaccumulative potential			
No addit	No additional information available			
12.4.	Mobility in soil			
50mM	MgCl2			
Ecolog	ıy - soil	Miscible with water.		
12.5.	12.5. Results of PBT and vPvB assessment			
50mM MgCl2				
This su	ubstance/mixture does not meet the PBT c	riteria of REACH regulation, annex XIII		
This su	ubstance/mixture does not meet the vPvB	criteria of REACH regulation, annex XIII		

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consider	rations
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
SECTION 14: Transport informa In accordance with ADR / RID / IMDG / IA	
14.1. UN number	. National design of the second se
UN-No. (ADR)	: Not regulated
UN-No. (IMDG) UN-No. (IATA)	: Not regulated : Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	. Not regulated
Proper Shipping Name Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated : Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
1474	
IATA	. Not regulated
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not regulated	
-	
- Transport by sea	
Not regulated	
- Air transport	
Not regulated	
10/00/0010	

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- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

1.4	Emergency number	telephone	Modified		
obreviations ar	id acronyms:				
	ADR (Accord européen relatif au transpo	rt internation	al des marchandises Dange	ereuses par Route)	
	ATE (Acute Toxicity Estimate)				
	CAS (Chemical Abstracts Service) number				
	CLP (Classification, Labeling and Packag	ging)			
	DNEL (Derived No effect Limit)				
	EC (European Community)				
	EC50 (Effective Concentration 50%)				
	EN (European Norm)				
	IARC (International Agency for Research	on Cancer)			
	IATA (International Air Transport Associa	tion)			
	IBC (Intermediate Bulk Container)				
	IMDG (International Maritime Dangerous Goods Code)				
	IMO (International Maritime Organisation)				
	LC50 (Lethal Concentration 50%)				
	LD50 (Lethal Dose 50%)				
	MAC (Maximal Allowed Concentration)				
	O/W (Oil-in-Water (chemistry))				
	OECD (Organisation for Economic Co-operation and Development)				
	PBT (Persistent, Bioaccumulative and Toxic)				
	PMcc (Pensky-Martens Closed Cup test)				
	PNEC (Predicted No Effect Concentration	n)			
	REACH (Registration, Evaluation and Au	thorisation of	CHemicals)		
	RID (Règlement concernant le transport i	nternational	ferroviaire de marchandises	s)	
	STEL (Short Term Exposure Limit)				
	TWA (Time Weighted Average)				
	UNxxxx (Number assigned by the United		nmittee of Experts on the Tr	ansport of Dangerous Goods)	
	vPvB (very Persistent and very Bioaccum	nulative)			
ata sources	vPvB (very Persistent and very Bioaccum REGUL/	nulative) ATION (EC)	No 1272/2008 OF THE EUF	ROPEAN PARLIAMENT AND C	

mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. : None. according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product