

according to UK REACH Regulation

Eosin-Phloxine Solution in Acetic Acid Alcohol

Revision date: 23.08.2023

Product code: 13558.xxxxx

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

1.1. Product identifier

Eosin-Phloxine Solution in Acetic Acid Alcohol

UFI:

R1J6-C1UH-M00X-9SVS

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

Use of the substance/mixture

Use as laboratory reagent. Intended for scientific research and development.

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.d	le
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Ger	rmany, Tel: +49(0)6131/19240

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word:

Pictograms:



Hazard statements

H225 H319 Highly flammable liquid and vapour. Causes serious eye irritation.

Precautionary statements

·····	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
B030 . B030	
P370+P378	In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

Special labelling of certain mixtures

EUH208	Contains Eosin G. May produce an allergic reaction.
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Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:



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

Chemical characterization

Mixture of organic solvent and dye.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regu	lation)	·	
64-17-5	Ethanol			75 - < 80 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H22	5 H319		
64-19-7	Acetic acid%			1 - < 5 %
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A; H	226 H314		
78-93-3	butanone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STO	T SE 3; H225 H319 H336 EUH	66	
17372-87-1	Eosin G			< 1 %
	241-409-6		01-2120138551-62	
	Eye Irrit. 2, Skin Sens. 1; H31	9 H317		

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

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Specific Co	nc. Limits, M-fac	tors and ATE		
CAS No	EC No	Chemical name	Quantity	
	Specific Conc.	Limits, M-factors and ATE		
64-17-5	200-578-6	Ethanol	75 - < 80 %	
		50 = 124,7 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 t. 2; H319: >= 50 - 100		
64-19-7	200-580-7	Acetic acid%	1 - < 5 %	
		50 = >40 mg/l (vapours); oral: LD50 = 3530 mg/kg Skin Corr. 1A; H314: >= 90 - r. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >=		
78-93-3	201-159-0	butanone	< 1 %	
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 2054 mg/kg			
17372-87-1	241-409-6	Eosin G	< 1 %	
	oral: LD50 = 23	344 mg/kg		

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. 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 unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Wash with plenty of water. Take off 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 immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Seek medical advice.

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

Acute effects: Mucous membrane irritation after eye contact or inhalation. Delayed effects: Impairment of inhibitory functions of the central nervous system, skin redness, nausea after ingestion of large amounts.

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.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.



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Vapours are heavier than air and will spread at floor level.

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Ventilate affected area. Special danger of slipping by leaking/spilling product. Wear personal protection equipment. (refer to chapter 8)

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

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. Ventilate affected area. Clear contaminated areas thoroughly.

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

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. (See section 8.) Use extractor hood (laboratory).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting.

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. Take off contaminated clothing. Protect skin by using skin protective cream.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep/Store only in original container. Protect from direct



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sunlight. Ensure adequate ventilation of the storage area. Concentrated vapours are heavier than air. Suitable material for Container: Stainless steel. (1.4301 (V2), 1.4401 (V4)); iron. solvent resistant plastics. Unsuitable materials for Container: Aluminium. Rubber. various plastics.

Hints on joint storage

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate.

Further information on storage conditions

Recommended storage temperature: 15-25 °C Protect against: UV-radiation/sunlight. heat. Cold Store small packages in a suitable, robust cabinet. .

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
64-19-7	Acetic acid	10	25		TWA (8 h)	WEL
		20	50		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
64-17-5	Ethanol					
Worker DNE	L, acute	inhalation	local	1900 mg/m³		
Worker DNE	L, long-term	dermal	systemic	343 mg/kg bw/day		
Worker DNE	L, long-term	inhalation	systemic	950 mg/m³		
Consumer D	NEL, acute	inhalation	local	950 mg/m³		
Consumer D	NEL, long-term	dermal	systemic	206 mg/kg bw/day		
Consumer D	NEL, long-term	inhalation	systemic	114 mg/m³		
Consumer D	NEL, long-term	oral	systemic	87 mg/kg bw/day		
64-19-7	Acetic acid%					
Worker DNE	L, long-term	inhalation	local	25 mg/m³		
Worker DNE	L, acute	inhalation	local	25 mg/m³		
Consumer DNEL, long-term		inhalation	local	25 mg/m³		
Consumer D	NEL, acute	inhalation	local	25 mg/m³		

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PNEC values

CAS No	Substance				
Environment	Environmental compartment Value				
64-17-5	Ethanol				
Freshwater		0,96 mg/l			
Freshwater (intermittent releases)	2,75 mg/l			
Marine water	r	0,79 mg/l			
Marine water	r (intermittent releases)	2,75 mg/l			
Freshwater s	sediment	3,6 mg/kg			
Marine sedin	nent	2,9 mg/kg			
Secondary poisoning		0,72 mg/kg			
Micro-organisms in sewage treatment plants (STP) 58		580 mg/l			
Soil		0,63 mg/kg			
64-19-7	Acetic acid%				
Freshwater		3,058 mg/l			
Freshwater (intermittent releases)	30,58 mg/l			
Marine water	r	0,306 mg/l			
Freshwater sediment		11,36 mg/kg			
Marine sediment		1,136 mg/kg			
Micro-organi	sms in sewage treatment plants (STP)	85 mg/l			
Soil		0,47 mg/kg			

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Use extractor hood (laboratory).Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them. Take precautionary measures against static discharges. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. 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. In case of prolonged or frequently repeated skin contact:

Tested protective gloves are to be worn:

Suitable material:

Butyl rubber. (0,7 mm, Breakthrough time >=480 min, penetration time (maximum wearing period): 160 min): NBR (Nitrile rubber). (0,4 mm, Breakthrough time >=120 min, penetration time (maximum wearing period): 40 min)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard



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EN 374 derived from it.

Before using check leak tightness / impermeability.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at:

Insufficient ventilation.

exceeding exposure limit values

generation/formation of aerosols

Suitable respiratory protective equipment:

gas filtering equipment (EN 141). Type : a

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

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	pinkorange		
Odour:	Ethanol.		
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		not determined	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Flash point:		12 °C	
Auto-ignition temperature:		400 °C	
Decomposition temperature:		not determined	
pH-Value (at 20 °C):		not determined	
Viscosity / kinematic:		not determined	
Water solubility:		completely miscible	
Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:		not determined	
Vapour pressure:		58 hPa	
(at 20 °C)			
Vapour pressure:		293 hPa	
(at 50 °C)			
Density (at 20 °C):		0,82 g/cm ³	
Relative vapour density:		not determined	
9.2. Other information			
Information with regard to physical haz	ard classes		
Explosive properties			
The product is not: Explosive. Vapour	rs of flammable sol	vents can accumulate in the gas phase	of closed
the set of	Lange to The surface la	oon away from fire and courses of ignitic	

container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Sustaining combustion:

Self-ignition temperature Solid:

Sustaining combustion

not applicable

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Gas: Oxidizing properties Not oxidising.	not determined					
Other safety characteristics Evaporation rate: Solvent separation test: Solid content: Sublimation point: Softening point: Bour point:	not determined not determined not determined not determined not determined not determined					
Pour point: Viscosity / dynamic:	not determined not determined					
Flow time:	not determined					

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Explosion risk in contact with: Oxidizing agents, strong. nitric acid. Hydrogenium peroxide. Exothermic reactions with: Alkali metals. Alkaline earth metals. Reducing agents, strong.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat. Protect from direct sunlight. Protect from moisture. In use may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Strong acid. Oxidizing agents. Alkali metals. Alkaline earth metals. Peroxides. phosphorus oxides. Nitrogen oxides (NOx). Hydrogenium peroxide. Nitric acid. hydrochloric acid. Sulfuric acid. Perchlorates. Chromium oxides. Acid chlorides.

10.6. Hazardous decomposition products

Resulting from the use of the product: Chlorine. 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

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64-17-5	Ethanol					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier	
64-19-7	Acetic acid%					
	oral	LD50 mg/kg	3530	Rat	GESTIS	
	inhalation (4 h) vapour	LC50	>40 mg/l	Rat	suppliers SDS.	
78-93-3	butanone					
	oral	LD50 mg/kg	2054	Ratte	SDB Lieferant	
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
17372-87-1	Eosin G					
	oral	LD50 mg/kg	2344	Rat, male and female	suppliers SDS.	

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Contains Eosin G. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

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.

Other information

Depending on the ingested quantity the following symptoms can be induced: a reduction of inhibitions, euphoria but also dysphoria, aggressiveness, impaired motoric skills, impaired responsiveness, blurred vision and fatigue.

SECTION 12: Ecological information

12.1. Toxicity

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



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64-17-5	Ethanol						
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier	
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia (water flea)	ECHA Dossier	
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier	
64-19-7	Acetic acid%						
	Acute fish toxicity	LC50 mg/l	>300	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	>300	72 h	Skeletonema costatum	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	>300	48 h	Daphnia magna	ECHA Dossier	
78-93-3	butanone						
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	ECHA Dossier	OECD 203
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64-17-5	Ethanol			
	other guideline	84%	20	ECHA Dossier
	Biodegradable.			
64-19-7	Acetic acid%			
	Other guideline	95%	5	suppliers SDS.
	Easily biodegradable (concerning to the criteria of the OECD)			
78-93-3	butanone			
		98%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water		
CAS No	Chemical name	Log Pow
64-17-5	Ethanol	-0,31
64-19-7	Acetic acid%	-0,17
78-93-3	butanone	0,3
17372-87-1	Eosin G	6,92
BCF	•	

CAS No	Chemical name	BCF	Species	Source
64-19-7	Acetic acid%	3,16		

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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

Avoid release to the environment. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. 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

Wash with plenty of water. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	1 L



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Excepted quantity: Transport category: Hazard No: Tunnel restriction code:	E2 2 33 D/E		
Marine transport (IMDG)			
<u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 3 II 3		
Special Provisions: Limited quantity: Excepted quantity: EmS:	144 1 L E2 F-E, S-D		
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHYL ALCOHOL SOLUTION 3 II 3		
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	A3 A58 A180 1 L Y341 E2 353 5 L 364 60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS: <u>14.6. Special precautions for user</u> Warning: Combustible liquid. Refer to <u>14.7. Maritime transport in bulk according t</u> not relevant			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture		
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75 2010/75/EU (VOC):	79,84 % (654,688 g/l)		
2010/75/EU (VOC). 2004/42/EC (VOC):	79,84 % (654,688 g/l) 79,84 % (654,688 g/l)		
Information according to 2012/18/EU	P5c FLAMMABLE LIQUIDS		

(SEVESO III):



according to UK REACH Regulation

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		1 490 10 01 10
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles acco work protection guideline' (94/33/EC). Observe emplo under the Maternity Protection Directive (92/85/EEC) nursing mothers.	pyment restrictions
Water hazard class (D):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
	of this mixture a chemical safety assessment has been carried ou	ıt:
SECTION 16: Other information		
Changes		
	ges from the previous version in section(s): 2,16.	
Rev. 1.00, 01.12.2014, Initial		
Rev. 2,00, 21.02.2017, Chang	-	
	ion Wizzard., Adding the UFI code.	
Rev. 2,1; 05.06.2023; general		
	revision / adjustment section 2.2	
Abbreviations and acronyms		
-	transport des marchandises dangereuses par Route	
•	gen zum Umgang mit wassergefährdenden Stoffen	
AGW: Arbeitsplatzgrenzwert		
AVV: Abfallverzeichnisverordr		
CAS Chemical Abstracts Serv		
-	and Packaging of substances and mixtures	
DNEL: Derived No Effect Lev	el	
d: day(s)		
-	zeichnis gemäß Entwurf Abfallverzeichnisverordnung	
	of Existing Commercial chemical Substances	
ELINCS: European List of No		
ECHA: European Chemicals		
EWC: European Waste Catal	•	
	NCY FOR RESEARCH ON CANCER	
IMDG: International Maritime	-	
IATA: International Air Transp		T A \
	Regulations by the "International Air Transport Association" (IA	IA)
ICAO: International Civil Aviat		
	s by the "International Civil Aviation Organization" (ICAO)	
	stem of Classification and Labelling of Chemicals ung (Ordinance on Hazardous Substances, Germany)	
h: hour	ang (Orainance on Hazardous Substances, Germany)	
LOAEL: Lowest observed adv	erse effect level	
LOAEC: Lowest observed adv		
LC50: Lethal concentration, 5		
LD50: Lethal dose, 50 percen		
NOAEL: No observed adverse		

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



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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 LL50: Lethal loading, 50% 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 Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure	
Flam. Liq. 2; H225	On basis of test data	
Eye Irrit. 2; H319	Calculation method	

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Eosin G. May produce an allergic reaction.
	,, ,

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of



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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.)