

according to UK REACH Regulation

Carbol-Fuchsin after ZIEHL-NEELSEN (cold Staining)

Revision date: 07.09.2023

Product code: 13070.xxxxx

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

1.1. Product identifier

Carbol-Fuchsin after ZIEHL-NEELSEN (cold Staining)

UFI:

261N-RNQR-94DE-X61P

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

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 Carc. 2; H351 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

- hydroxybenzene
- 3-methylparafuchsin

Danger

Signal word: Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H341	Suspected of causing genetic defects.

Re

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H351	Suspected of causing cancer.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statemen	ts	
P260	Do not breathe mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	

Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:	Danger		

Hazard statements

H314-H341-H351-H412

Precautionary statements

P260-P280-P303+P361+P353-P305+P351+P338-P310

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 aqueous solution



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulatio	n)		
64-17-5	Ethanol			10 - < 15 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H3	19		
108-95-2	hydroxybenzene			5 - < 10 %
	203-632-7	604-001-00-2	01-2119471329-32	
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Chronic 2; H341 H331 H311 H301 H314 H318 H373 H411			
632-99-5	3-methylparafuchsin			1 - < 5 %
	211-189-6			
	Carc. 2; H351			
68439-49-6	Alcohols, C16-18, ethoxylated			< 1 %
	500-212-8			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H400 H411			
78-93-3	butanone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SI	E 3; H225 H319 H336 EUH06	6	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name		Quantity
	Specific Conc.	Limits, M-factors and ATE	
64-17-5	200-578-6	Ethanol	10 - < 15 %
		:50 = 124,7 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 rit. 2; H319: >= 50 - 100	
108-95-2	203-632-7	hydroxybenzene	5 - < 10 %
	inhalation: LC50 = 0,51 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 660 mg/kg; oral: LD50 = 100,1 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eve Irrit. 2; H319: >= 1 - < 3		
632-99-5	211-189-6	3-methylparafuchsin	1 - < 5 %
	oral: LD50 = >	>2000 mg/kg	
68439-49-6	500-212-8	Alcohols, C16-18, ethoxylated	< 1 %
	oral: LD50 = 1	oral: LD50 = 1260 mg/kg Aquatic Acute 1; H400: M=10	
78-93-3	201-159-0	butanone	< 1 %
	dermal: LD50	= >2000 mg/kg; oral: LD50 = 2054 mg/kg	

Further Information

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!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).Take off immediately all contaminated clothing.

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After inhalation

Provide fresh air. Medical treatment necessary. Remove casualty to fresh air and keep warm and at rest. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse.Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.Consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Gastric perforation. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Adverse human health effects and symptoms:gastric perforation:Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Possible harmful effect(s) on human beings and possible symptom(s): Circulatory collapse drowsiness. Nausea. vomiting.Headaches and dizziness may occur, proceeding to fainting or unconsciousness; large doses may result in coma and death.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Phenol

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (See section 8.)

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up



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For containment

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

For cleaning up

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

Other information

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use extractor hood (laboratory).Provide adequate ventilation as well as local exhaustion at critical locations.

Personal protection equipment (refer to chapter 8)Always close containers tightly after the removal of product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Wash contaminated clothing prior to re-use. Used working clothes should not be worn outside the work area. Street clothing should be stored seperately from work clothing.

Further information on handling

Avoid contact with skin, eyes and clothes.

Conditions to avoid: generation/formation of aerosols

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in a cool, so smoking. Suitable material for Container: polyethylene. Glass. Unsuitable materials for Container: Aluminium. Zinc.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Explosives.Oxidizing liquids.Organic peroxides. Self-reactive substances and mixtures.Radioactive substances.Infectious substances.

Further information on storage conditions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.storage temperature:15-25°C.



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7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
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
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		4	16		STEL (15 min)	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			Effect	Value	
64-17-5	Ethanol				
Worker DNEL	, acute	inhalation	local	1900 mg/m³	
Worker DNEL, long-term dermal systemic 343 mg/kg bw/da					
Worker DNEL	, long-term	inhalation	systemic	950 mg/m³	
Consumer DN	IEL, acute	inhalation	local	950 mg/m³	
Consumer DN	IEL, long-term	dermal	systemic	206 mg/kg bw/day	
Consumer DN	IEL, long-term	inhalation	systemic	114 mg/m³	
Consumer DN	IEL, long-term	oral	systemic	87 mg/kg bw/day	

PNEC values

CAS No	Substance		
Environmenta	al compartment	Value	
64-17-5	Ethanol		
Freshwater		0,96 mg/l	
Freshwater (ir	ntermittent releases)	2,75 mg/l	
Marine water		0,79 mg/l	
Marine water	2,75 mg/l		
Freshwater sediment 3,6 mg/kg			
Marine sedim	ent	2,9 mg/kg	
Secondary poisoning		0,72 mg/kg	
Micro-organisms in sewage treatment plants (STP)		580 mg/l	
Soil		0,63 mg/kg	

8.2. Exposure controls



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Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use extractor hood (laboratory).Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. 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.

Recommended material:

Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period): >= 8 h):

Butyl rubber. (0,7 mm)

NBR (Nitrile rubber) (0,4mm)

Before using check leak tightness / impermeability.

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

Skin protection

Use of protective clothing. Lab apron.

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

Respiratory protection

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

Respiratory protection necessary at:

Insufficient ventilation.

exceeding exposure limit values

generation/formation of aerosols

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Typ: A-P3

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

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment. Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	violet
Odour:	phenol.
Odour threshold:	not determined
Melting point/freezing point:	

not determined



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Boiling point or initial boiling point and	78 °C			
boiling range:				
Flammability:	not applicable			
Lower explosion limits:	not determined			
Upper explosion limits:	not determined			
Flash point:	30 °C			
Auto-ignition temperature:	not determined			
Decomposition temperature:	not determined			
pH-Value (at 20 °C):	6-6,5			
Viscosity / kinematic:	not determined			
Water solubility:	miscible.			
(at 20 °C)				
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):	0,96 g/cm ³			
Relative vapour density:	not determined			
Particle characteristics:	not applicable			
9.2. Other information				
Information with regard to physical hazard classe	es			
Explosive properties				
The product is not: Explosive.				
Sustaining combustion:	No data available			
Self-ignition temperature				
Solid:	not applicable			
Gas:	not applicable			
Oxidizing properties				
none				
Other safety characteristics				
Evaporation rate:	not determined			
Solid content:	not determined			
Viscosity / dynamic:	not determined			
SECTION 10: Stability and reactivity				

10.1. Reactivity

Flammable. The product is stable under normal storage conditions.

10.2. Chemical stability

The product is stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Violent reaction with: The reaction partners generally known for water.

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. Protect from sunlight.

10.5. Incompatible materials

Oxidizing agents, strong. Aluminium. acid.



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10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Phenol

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1247 mg/kg; ATE (dermal) 8219 mg/kg; ATE (inhalation vapour) 37,36 mg/l; ATE (inhalation dust/mist) 6,227 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	Ethanol	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			
108-95-2	hydroxybenzene							
	oral	LD50 mg/kg	100,1	Ratte	suppliers SDS.			
	dermal	LD50 mg/kg	660	Rat	suppliers SDS.	OECD 402		
	inhalation (4 h) vapour	LC50	0,51 mg/l		suppliers SDS.			
	inhalation dust/mist	ATE	0,5 mg/l					
632-99-5	3-methylparafuchsin							
	oral	LD50 mg/kg	>2000	Monkey	suppliers SDS.			
68439-49-6	Alcohols, C16-18, ethoxylated							
	oral	LD50 mg/kg	1260	Rat	suppliers SDS.			
78-93-3	butanone							
	oral	LD50 mg/kg	2054	Ratte	SDB Lieferant			
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier			

Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (hydroxybenzene)

Suspected of causing cancer. (3-methylparafuchsin)

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

STOT-single exposure

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

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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.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
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		
108-95-2	hydroxybenzene							
	Acute fish toxicity	LC50	8,9 mg/l	96 h	Onchorhynchus clarki	ECHA-Dossier	US-EPA	
	Acute algae toxicity	ErC50 mg/l	61,1	96 h	Pseudokirchneriella subcapitata	ECHA-Dossier	US-EPA	
	Acute crustacea toxicity	EC50	3,1 mg/l	48 h	Ceriodaphnia dubia (water flea)	ECHA-Dossier	US-EPA	
	Fish toxicity	NOEC mg/l	0,077	60 d	fish	ECHA-Dossier		
	Crustacea toxicity	NOEC mg/l	0,16	16 d	Daphnia magna (Big water flea)	ECHA-Dossier		
68439-49-6	Alcohols, C16-18, ethoxylated							
	Acute fish toxicity	LC50	100 mg/l	96 h	Danio rerio (Zebrabärbling)	suppliers SDS.	OECD 203	
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

The product has not been tested.



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CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	-	-				
64-17-5	Ethanol						
	other guideline	84%	20	ECHA Dossier			
	Biodegradable.						
108-95-2	hydroxybenzene						
	Biologische Abbaubarkeit	62 %	4	OECD 301C			
Easily biodegradable (concerning to the criteria of the OECD)							
68439-49-6	Alcohols, C16-18, ethoxylated						
	Biodegradability aerobic	94%	28	OECD 301B			
	Easily biodegradable (concerning to the criteria of the OECD)						
	Biochemical oxygen demand (BOD):	310 mg/g					
	Chemical Oyxgen Demand (COD):	2000 mg/g					
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

	•	
78-93-3	butanone	0,3
632-99-5	3-methylparafuchsin	1,632
108-95-2	hydroxybenzene	1,47
64-17-5	Ethanol	-0,31
CAS No	Chemical name	Log Pow

BCF

CAS No	Chemical name	BCF	Species	Source
108-95-2	hydroxybenzene	17,5		OECD 305

12.4. Mobility in soil

No information available.

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

No information available.

Further information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. 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.



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

List of Wastes Code - residues/unused products

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

List of Wastes Code - used product

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

List of Wastes Code - contaminated packaging

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

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 2920
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ethanol, phenol)
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	ll
Hazard label:	8+3
Classification code:	CF1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	83
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 2920
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ethanol, phenol)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8+3
Classification code:	CF1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 2920
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ethanol, phenol)



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14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8+3			
Special Provisions:	274			
Limited quantity:	1L			
Excepted quantity: EmS:	E2 F-E, S-C			
Air transport (ICAO-TI/IATA-DGR)	Г-Е, 3-С			
<u>14.1. UN number or ID number:</u>	UN 2920			
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ethanol, phenol)			
14.3. Transport hazard class(es):	8			
<u>14.4. Packing group:</u>	II			
Hazard label:	8+3			
Limited quantity Passenger:	0.5 L			
Passenger LQ:	Y840			
Excepted quantity: IATA-packing instructions - Passenger:	E2 851			
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	1L			
IATA-packing instructions - Cargo:	855			
IATA-max. quantity - Cargo:	30 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
-	g: strongly corrosive. Refer to section 6-8			
14.7. Maritime transport in bulk according to	IMO instruments			
not relevant				
Other applicable information No information available.				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/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):	not determined			
2004/42/EC (VOC):	not determined			
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile		
Water hazard class (D):	3 - highly hazardous to water			

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15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Ethanol hydroxybenzene butanone

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,8,9,11,12,13,14,15,16.

Rev.1.0; 24.08.2009, Initial release

Rev.1.1; 01.07.2011, Revision Rev.1.2; 24.06.2020, Revision Changes in chapter: 1-16 Rev. 1.3; 30.11.2022, Individual safety data sheet for 13030.xxxxx; Revision Rev. 2.00; 18.04.2023; Änderung der Einstufung/Kennzeichnung/Transport Rev. 2,10; 09.05.2023; Änderung der Transportkennzeichnung Rev. 2,2; 07.09.2023; Change of transport labelling

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LC50: Lethal concentration, 50 percent 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% 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



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(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

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

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

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Muta. 2; H341	Calculation method
Carc. 2; H351	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
-	
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.)