

according to UK REACH Regulation

Acriflavine Solution, aqueous

Revision date: 01.12.2023

Product code: 12790.xxxxx

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

1.1. Product identifier

Acriflavine Solution, aqueous

UFI:

F3E4-N1RN-D00V-8MC7

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

Use of the substance/mixture

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

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Corr. 1; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

The mixture was classified as corrosive precautionary due to an extreme pH-value.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Acetic acid...%

Signal word:

Pictograms:



Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if



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present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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

Hazardous components

CAS No	Chemical name				
	EC No				
	Classification (GB CLP Regulation)				
64-19-7	Acetic acid%				
	200-580-7	607-002-00-6	01-2119475328-30		
	Flam. Liq. 3, Skin Corr.	1A; H226 H314			

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. I	imits, M-factors and ATE	
64-19-7	200-580-7	Acetic acid%	1 - < 5 %
		0 = >40 mg/l (vapours); oral: LD50 = 3530 mg/kg Skin Corr. 1A; H314: >= 90 - : 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >=	

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). May cause allergic reactions. In case of an allergic reaction: Remove casualty to fresh air and keep warm and at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After inhalation

Medical treatment necessary. Provide fresh air. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, administer artificial respiration. In case of allergic symptoms, especially in the breathing area, seek medical advice 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. If skin irritation occurs: Get medical advice/attention.



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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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After indestion

Observe risk of aspiration if vomiting occurs. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For cleaning up

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

Other information

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. No special measures are necessary. The usual precautions for handling chemicals should be considered. Wear suitable protective clothing.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

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

Further information on handling

Always close containers tightly after the removal of product. Personal protective equipment must be determined according to the quantity and concentration of hazardous substances at the workplace. Wear solvent-resistant protective clothing. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on joint storage

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

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 15 - 25°C Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	WEL
		20	50		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-19-7	Acetic acid%			
Worker DNEL, long-term		inhalation	local	25 mg/m³
Worker DNEL,	acute	inhalation	local	25 mg/m³
Consumer DNEL, long-term		inhalation	local	25 mg/m³
Consumer DNE	EL, acute	inhalation	local	25 mg/m³



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PNEC values

CAS No	Substance			
Environmen	ronmental compartment			
64-19-7	Acetic acid%			
Freshwater		3,058 mg/l		
Freshwater	(intermittent releases)	30,58 mg/l		
Marine wate	r	0,306 mg/l		
Freshwater	sediment	11,36 mg/kg		
Marine sedi	ment	1,136 mg/kg		
Micro-organ	isms in sewage treatment plants (STP)	85 mg/l		
Soil		0,47 mg/kg		

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them.

Individual protection measures, such as personal protective equipment

Eye/face protection

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

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material: FKM (fluororubber). - Thickness of glove material: 0.4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

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

Breakthrough time >= 8 h

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

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

Skin protection

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

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



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Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required. Suitable respiratory protective equipment: - Particle filter device (EN 143)- P1.

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Physical state:	liquid	
	Colour:	yellow -brown	
	Odour:	slightly ofAcetic acid	
	Melting point/freezing point:		not determined
	Boiling point or initial boiling point and		100 °C
	boiling range:		
	Flammability:		not determined
	Lower explosion limits:		not determined
	Upper explosion limits:		not determined
	Flash point:		not determined
	Auto-ignition temperature:		not determined
	Decomposition temperature:		not determined
	pH-Value (at 20 °C):		1,5 - 1,9
	Viscosity / kinematic:		not determined
	Water solubility:		miscible.
	Solubility in other solvents		
	not determined		
	Partition coefficient n-octanol/water:		not determined
	Vapour pressure:		23 hPa
	Density (at 20 °C):		1,00 g/cm ³
	Relative vapour density: Particle characteristics:		not determined
	Particle characteristics.		not applicable
~ ~			
<u>9.2</u>	2. Other information		
<u>9.2</u>	Information with regard to physical haza	ard classes	
<u>9.2</u>	Information with regard to physical haza Explosive properties	ard classes	
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive.	ard classes	Not quotaining combustion
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion:	ard classes	Not sustaining combustion
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature	ard classes	-
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas:	ard classes	Not sustaining combustion not determined
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature	ard classes	-
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties	ard classes	-
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics	ard classes	-
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate:	ard classes	not determined
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics	ard classes	not determined
<u>9.2</u>	Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content:	ard classes	not determined not determined not determined
<u>9.2</u>	Information with regard to physical haze Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point:	ard classes	not determined not determined not determined not determined not determined
<u>9.1</u>	Information with regard to physical haze Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point:	ard classes	not determined not determined not determined not determined not determined not determined not determined
<u>9.1</u>	Information with regard to physical haze Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point:	ard classes	not determined not determined not determined not determined not determined not determined not determined not determined
<u>9.1</u>	Information with regard to physical haze Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: Viscosity / dynamic:	ard classes	not determined not determined not determined not determined not determined not determined not determined not determined
<u>9.2</u>	Information with regard to physical haze Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point:	ard classes	not determined not determined not determined not determined not determined not determined not determined not determined



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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exothermic reaction with: Base, Peroxides, Oxidizing agent. Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Keep away from: Base, Oxidizing agent, Peroxides. Substances that form flammable gases when in contact with water. Oxidizing agents, strong. peroxides. Hydrogenium peroxide. Nitric acid. perchloric acid. Potassium peroxide.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity

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

CAS No Chemical name

OAO NO									
	Exposure route	Dose		Species	Source	Method			
64-19-7	Acetic acid%								
	oral	LD50 mg/kg	3530	Rat	GESTIS				
	inhalation (4 h) vapour	LC50	>40 mg/l	Rat	suppliers SDS.				

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data) Causes serious eye damage. (On basis of test data)

Sensitising effects

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

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.



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Other information

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

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
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		Skeletonema costatum	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	>300	48 h	Daphnia magna	ECHA Dossier		

12.2. Persistence and degradability

Product is biodegradable.

CAS No	Chemical name					
	Method	Value		d	Source	
	Evaluation					
	Acetic acid%					
64-19-7	Acetic acid%					
64-19-7	Acetic acid% Other guideline	95%		5	suppliers SDS.	

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

BCF		
64-19-7	Acetic acid%	-0,17
CAS No	Chemical name	Log Pow

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

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

No information available.

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



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Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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

List of Wastes Code - residues/unused products

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

List of Wastes Code - used product

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

List of Wastes Code - contaminated packaging

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

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user Refer to section 6-8		
14.7. Maritime transport in bulk according to IMO instruments		
not relevant		



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SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):	

Additional information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Acetic acid%

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,6,7,9,10,11,12,13,14,15,16. Rev. 2,0; 15.06.2022, Individual safety data sheet based on 11974_collect Rev. 2,1; 01.12.2023, general adjustment(s)



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Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route	
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen	
AGW: Arbeitsplatzgrenzwert	
AVV: Abfallverzeichnisverordnung	
CAS Chemical Abstracts Service	
CLP: Classification, Labelling and Packaging of substances and mixtures	
DNEL: Derived No Effect Level	
d: day(s)	
EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung	
EINECS: European INventory of Existing Commercial chemical Substances	
ELINCS: European LIst of Notified Chemical Substances	
ECHA: European Chemicals Agency	
EWC: European Waste Catalogue	
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization	
ICAO. International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	
GHS: Globally Harmonized System of Classification and Labelling of Chemicals	
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)	
h: hour	
LOAEL: Lowest observed adverse effect level	
LOAEC: Lowest observed adverse effect concentration	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
NOAEL: No observed adverse effect level	
NOAEC: No observed adverse effect level	
NLP: No-Longer Polymers	
N/A: not applicable	
OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration	
PBT: Persistent bioaccumulative toxic	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de	
fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)	
REACH: Registration, Evaluation, Authorisation of Chemicals	
SVHC: substance of very high concern	
TRGS Technische Regeln fuer Gefahrstoffe	
UN: United Nations	
VOC: Volatile Organic Compounds	
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe	
WGK: Wassergefaehrdungsklasse	
CLP: Classification, labelling and Packaging	
REACH: Registration, Evaluation and Authorization of Chemicals	
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations	
CAS: Chemical Abstracts Service	
DNEL: Derived No Effect Level	
DMEL: Derived Minimal Effect Level	
PNEC: Predicted No Effect Concentration	
ATE: Acute toxicity estimate	
LL50: Lethal loading, 50%	
EL50: Effect loading, 50%	
EC50: Effective Concentration 50%	
ErC50: Effective Concentration 50%, growth rate	



according to UK REACH Regulation

Acriflavine Solution, aqueous

Revision date: 01.12.2023

Product code: 12790.xxxxx

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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: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Flam. Lig: Flammable liquids

Skin Corr: Skin corrosion

Eye Dam: Eye damage

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

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Further Information

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

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

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

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