

# Oxidizer 0.05 M (Mixture of Iodine in Pyridine and Water)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 3/10/2022 Revision date: 9/12/2023 Supersedes version of: 7/6/2023 Version: 7.0

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Oxidizer 0.05 M (Mixture of Iodine in Pyridine and Water)
UFI	: X9S2-U0F3-8009-MGS7
Product code	: NC-0502
Type of product	: Synthesis Reagent, Oxidizer
Product group	: End product

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

##### 1.2.1. Relevant identified uses

Main use category	: Laboratory chemical, Professional use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Laboratory chemicals Substance manufacture
Function or use category	: Laboratory chemicals

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

emp Biotech GmbH GmbH  
Robert-Rössle-Str. 10  
DE- 13125 Berlin  
Deutschland  
T +49 (0)30 94 89 22 01 (Monday-Friday, 9:00 am-5:00 pm) - F +49 (0)30 94 89 32 01  
[info@empbiotech.com](mailto:info@empbiotech.com) - [www.empbiotech.com](http://www.empbiotech.com)

#### 1.4. Emergency telephone number

Emergency number	: Giftnotruf Berlin +49 30 30686700 (Beratung in Deutsch), 24 Stunden, 7 Tage/Woche; International: INFOTRAC +1-352-323-3500 (Phone) or in the US 800-535-5053 (toll-free), 24 hours/day, 7 days/week
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT RE 2	H373

Full text of hazard classes, H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : H225 - Highly flammable liquid and vapour.  
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H373 - May cause damage to organs (thyroid gland) through prolonged or repeated exposure (oral).
- : 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.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a POISON CENTER, doctor if you feel unwell.

### 2.3. Other hazards

Other hazards which do not result in classification : This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

#### Component

Pyridine (anhydrous) (110-86-1)	
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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### Component

Pyridine (anhydrous)(110-86-1)	
Iodine(7553-56-2)	

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pyridine (anhydrous) substance with national workplace exposure limit(s) (DE)	CAS-No.: 110-86-1 EC-No.: 203-809-9 EC Index-No.: 613-002-00-7 REACH-no: 01-2119493105-40-XXXX	85 – 95	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302
Iodine	CAS-No.: 7553-56-2 EC-No.: 231-442-4 EC Index-No.: 053-001-00-3 REACH-no: 01-2119485285-30-XXXX	< 5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Consult a doctor. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation	: Move person to fresh air and ensure comfortable breathing. Get immediate medical advice/attention. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. Ask for medical advice.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Get medical advice/attention. Remove contact lenses, if possible. Continue rinsing.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Drink water immediately (max. 2 cups). Ask for medical advice.

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

Symptoms/effects	: The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.
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### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or waterspray.
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### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.
Hazardous decomposition products in case of fire	: Hydrogen iodide. Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Mixture with combustible ingredients. Pay attention to flashback.

### 5.3. Advice for firefighters

Protection during firefighting	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
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Other information : Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : For personal protection see section 8.  
Emergency procedures : Do not breathe vapours, mist, gas, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Evacuate area.

#### 6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Be careful of explosion risk. Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4. Reference to other sections

Information on exposure controls/personal protective equipment and on Instructions for disposal can be found in sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use under laboratory hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.  
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Apply preventive skin protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry, well-ventilated place. Keep away from heat and sources of ignition.  
Storage temperature : 5 – 20 °C  
Storage area : Storage class (TRGS 510): See section 15.1.2.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Pyridine (anhydrous) (110-86-1)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Pyridin

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Pyridine (anhydrous) (110-86-1)	
AGW (OEL TWA) [1]	15 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	5 ppm - Remarks: Indicative Legal reference: Commission Directive 91/322/EEC on release of indicative limit values
Iodine (7553-56-2)	
Germany - Occupational Exposure Limits (Generic OEL data)	
	Contains no substances with occupational exposure limits

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye protection. Wear closed safety glasses. EN 166. Use face shield for larger quantities.

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective clothing

##### Hand protection:

Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact-material: Viton®

Minimum layer thickness: 0,7 mm

Break through time: > 480 min. Splash contact-material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 10 min

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear respiratory protection. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components must be tested and approved under appropriate government standards such as NIOSH (U.S.) or EN (EU).

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### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Do not let product enter drains. Avoid release to the environment. Risk of explosion. Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Dark brown.
Odour	: Unpleasant.
Odour threshold	: Not available
Melting point	: -42.2 °C (Main component)
Freezing point	: Not available
Boiling point	: 115 °C at 1013 hPa (Main component)
Flammability	: Not available
Lower explosion limit	: 1.7 vol % (Main component)
Upper explosion limit	: 10.6 vol % (Main component)
Flash point	: 17 °C (Main component)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
SADT	: 550 °C
pH	: 8.5 15 g/l at 20 °C.
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 20.5 mbar at 20 °C (Main component)
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapors can form an explosive mixture with air.

### 10.2. Chemical stability

Stable under the specified storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat. Open flame. Sparks. Direct sunlight. Extremely high or low temperatures.

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### 10.5. Incompatible materials

Rubber. Several plastics.

### 10.6. Hazardous decomposition products

In the event of fire: see section 5.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Harmful if inhaled.
Additional information	: Pyridine: LD50 Oral - Rat: 1.500 mg/kg Remarks: (ECHA) Symptoms: Vomiting, Nausea LC50 Inhalation - Rat - male - 4 h: 17,1 mg/l Remarks: (US-EPA) Symptoms: mucosal irritations, Cough, Shortness of breath LD50 Dermal - Rabbit: > 1.000 - 2.000 mg/kg Remarks: (OECD Test Guideline 402)  Jodine: LD50 Oral - Rat: 315 mg/kg (US-EPA) Remarks: The GHS classification specified by the authority LC50 Inhalation - Rat - male and female - 4 h: > 4,588 mg/l (OECD Test Guideline 403) Remarks: (Regulation (EC) No 1272/2008, Annex VI) LD50 Dermal - Rabbit - male and female: 1.425 mg/kg (US-EPA)

#### Pyridine (anhydrous) (110-86-1)

LD50 oral rat	891 mg/kg BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 14-4/1970.
LD50 dermal rabbit	1120 mg/kg BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 14-4/1970.

#### Iodine (7553-56-2)

LD50 oral rat	14000 mg/kg - DRFUD4 Drugs of the Future. (J.R. Prous, S.A., Apartado de Correos 540, 08080 Barcelona, Spain) Vol. 4, Pg. 876, 1979. (RTECS).
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Skin corrosion/irritation	: Harmful in contact with skin. pH: 8.5 15 g/l at 20 °C.
Additional information	: Pyridine: Skin - Rabbit Result: Mild skin irritation - 24 h (Draize Test)

#### Pyridine (anhydrous) (110-86-1)

pH	≈ 8.5 at 25 °C
Serious eye damage/irritation	: May cause eye irritation pH: 8.5 15 g/l at 20 °C.
Additional information	: Pyridine: Eyes - Rabbit Result: Irritating to eyes. - 24 h Remarks: (ECHA)

#### Pyridine (anhydrous) (110-86-1)

pH	≈ 8.5 at 25 °C
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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Pyridine: In a series of microbiological and cell culture tests as well as cytogenetic methods, pyridine proved to be non-genotoxic or clastogenic in most cases. In-vivo-tests on Drosophila were also negative. No information is available for humans. Iodine: There is no evidence that iodine has mutagenic potential.)
Carcinogenicity	: Not classified

### Oxidizer 0.05 M (Mixture of Iodine in Pyridine and Water)

IARC group	3 - Not classifiable
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### Pyridine (anhydrous) (110-86-1)

IARC group	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (thyroid gland) through prolonged or repeated exposure (oral).
Aspiration hazard	: Harmful by inhalation

### Pyridine (anhydrous) (110-86-1)

Viscosity, kinematic	≈ 0.898 mm <sup>2</sup> /s
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher.
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### 11.2.2. Other information

Potential adverse human health effects and symptoms	: Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Headache, Dizziness, Tachycardia Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice, The substance should be handled with special care.
Other information	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### Pyridine (anhydrous) (110-86-1)

LC50 - Fish [1]	6.3 (1.1 – 106) mg/l Reference for median: Wan, M.T., D.J. Moul, and R.G. Watts 1987. Acute Toxicity to Juvenile Pacific Salmonids of Garlon 3A, Garlon 4, Triclopyr, Triclopyr Ester, and Their Transformation Products: 3,5,6-Trichloro-2 Pyridinol and 2-Methoxy-3,5,6-Trichloropyridine. Bull. Environ. Contam. Toxicol. 39(4):721-728 (OECDG Data File)
EC50 - Crustacea [1]	1130 (182 – 2550) mg/l Reference for median: Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018)



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Pyridine (anhydrous) (110-86-1)	
EC50 96h - Algae [1]	110 mg/l Reference for median: Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl.Tech.Inf.Serv., Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)
Iodine (7553-56-2)	
LC50 - Fish [1]	1.73 (0.53 – 4.2) mg/l - Reference for median: Laverock, M.J., M. Stephenson, and C.R. MacDonald 1995. Toxicity of Iodine, Iodide, and Iodate to Daphnia magna and Rainbow Trout (Oncorhynchus mykiss). Arch.Enviro.n.Contam.Toxicol. 29(3):344-350
EC50 - Crustacea [1]	0.33 mg/l - Reference for median: Office of Pesticide Programs 2000. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.

### 12.2. Persistence and degradability

Pyridine (anhydrous) (110-86-1)	
Biodegradation	97 % Aerobic - Exposure time 28 d Result: Readily biodegradable. (OECD Test Guideline 301B)
Iodine (7553-56-2)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Pyridine (anhydrous) (110-86-1)	
Partition coefficient n-octanol/water (Log Kow)	0.65
Iodine (7553-56-2)	
Partition coefficient n-octanol/water (Log Kow)	2.49

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Oxidizer 0.05 M (Mixture of Iodine in Pyridine and Water)	
Results of PBT assessment	This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
Component	
Pyridine (anhydrous) (110-86-1)	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

Other adverse effects : Discharge into the environment must be avoided.

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Pyridine	: Toxicity to fish: Semi-static test: EC50: Danio rerio (zebra fish): 560 - 1.000 mg/l - 96 h Remarks: (OECD Test Guideline 203) (in analogy to similar products) Toxicity to daphnia and other aquatic invertebrates: EC50: Daphnia magna (Water flea): 320 mg/l - 48 h Remarks: (OECD Test Guideline 202) (in analogy to similar products) Toxicity to algae: Static test: EC50: Pseudokirchneriella subcapitata: 320 mg/l - 72 h Remarks: (OECD Test Guideline 201) (in analogy to similar products) IC5: Scenedesmus quadricauda (Green algae): 120 mg/l - 7 d Remarks: (maximum permissible toxic concentration) EC50: SELENASTRUM: 100,00 - 180,00 mg/l - 72 h
	Iodine: Toxicity to fish: Static test: LC50: Oncorhynchus mykiss (rainbow trout): 1,67 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates: Static test: EC50: Daphnia magna (Water flea): 0,55 mg/l - 48 h Remarks: (ECHA) EC50: Daphnia magna (Water flea): 0,2 mg/l - 48 h Toxicity to algae: Growth inhibition: ErC50: Desmodesmus subspicatus (green algae): 0,13 mg/l - 72 h Remarks:(OECD Test Guideline 201) Toxicity to bacteria: EC50 - activated sludge: 280 mg/l - 3 h Remarks: (OECD Test Guideline 209)




## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Product residues are to be disposed of in compliance with national and regional regulations dispose. Keep chemicals in original containers. Not with other waste mix. Uncleaned containers are to be treated according to the product. Pay attention to the waste policy 2008/98/EG.
Product/Packaging disposal recommendations	: Contaminated packaging to be disposed as unused product.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 1993	UN 1993	UN 1993
<b>14.2. UN proper shipping name</b>		
FLAMMABLE LIQUID, N.O.S. (Solution of Iodine in Pyridine and Water)	FLAMMABLE LIQUID, N.O.S. (Solution of Iodine in Pyridine and Water)	FLAMMABLE LIQUID, N.O.S. (Solution of Iodine in Pyridine and Water)
<b>14.3. Transport hazard class(es)</b>		
3	3	3
		

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ADR	IMDG	IATA
<b>14.4. Packing group</b>		
II	II	II
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### Overland transport

Tunnel restriction code (ADR) : D/E

#### Transport by sea

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

#### Air transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : FLAMMABLE LIQUIDS

##### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

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### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

#### Germany

Employment restrictions	: Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	: LGK 3 - Flammable liquids.
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### 15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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