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SAFETY DATA SHEET (SDS)
According to TMMY (R.G. 13/12/2014-29204 Mük.)

1. IDENTIFICATION OF THE PRODUCT COMPANY

1.1. Identification of Product

Chemical Name

: DEROCID 3800

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

Application

Anti-algae in cooling towers, microbiocide.

1.3. Details of the supplier of the safety data sheet

Company Name

: Deren Kimya San. ve Tic. A.Ş.

Adress

: Hasanpaşa, Kurbağalıdere Cad. Nabizade Sk. No:76/A

Kadıköy-İSTANBUL

: 0216 449 67 67 - Pbx

Phone

: 0216 449 67 75

Fax

1.4. Emergency telephone number

0262 658 27 01

Emergency Information

112

Emergency First Aid Center

114

Poison Information Center

110

Fire Department

2. HAZARDOUS IDENTITY INFORMATION

2.1. Classification of the substance or mixture

Flammable Liquid 3, H226

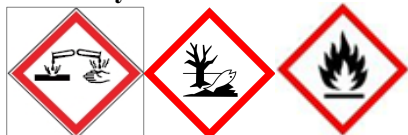
Skin corrosion, Category, 1B, H314

Aquatic Acute 1, H400

2.2. Label Elements

Classified and labeled according to CLP regulation (EC No 1272/2008).

GHS Symbols



Words of Warning

Danger

2.3. Other Damages

No data available.

Expression of Harmfulness

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary Statement

P210 P233 P240 P241 P242 P243 P260 P264 P270

P271 P273 P280 P301+P330+P331

P303+P361+P353 P363 P304+P340 P310

P321 P305+P351+P338 P391

P405 P501

Check the **Section 16** for the full text of the exclamation statements in this section.

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3.COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EC No	Cas No	Concentration Range (%)	Class	H Phrases*
5-Chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4 isothiazolin-3-one	247-500-7 220-239-6 (Mixture)	55965-84-9	12<...<25	Skin Corrosive 1B Acute Toxicity 4 Acute Toxicity 4 Acute Toxicity 4 Aquatic Acute 1 Aquatic Chronic 1	H314 H302 H312 H332 H400 H410
Copper Sulfate	231-847-6	7758-98-7	1<...<4	Acute Toxicity 4 Eye Irritation 2 Skin Irritation 2 Aquatic Chronic 1	H302 H319 H315 H410
Acetic acid	200-580-7	64-19-7	0,1<...<2	Flammable Liquid 3	H226

* H stands for Phrases are given in Chapter 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eyes: In case of contact with eyes, eyelids thoroughly related eye injuries eye opening and maintaining at least 15 minutes with eye washing bottle under running water, shower or eye wash under running water. Consult an ophthalmologist for treatment.

Skin: In case of skin contact with contaminated clothing and shoes should be removed and the skin should be washed with running water for at least 15 minutes, clothing should be laundered before reuse. The doctor should be called.

Swallowing : The unconscious force vomiting (risk), dilute by drinking 1-2 glasses of water. Call a physician immediately.

Inhalation: Do not breathe dust / smoke / gas / mist / vapor / spray. If respiratory irritation occurs, remove to fresh air.

4.2. First Signs for both medical intervention and special treatment

We have no description of any symptoms. Treat symptomatically.

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5. FIRE FIGHTING MEASURES

- 5.1. Fire Extinguishers** : Water spray or mist, foam, dry chemical powder, carbon dioxide. Use the appropriate method according to extinguish the fire source.
- 5.2. Special Damages Resulting from substances or mixtures** : The corrosive substance that surrounds the flame may cause the formation of harmful fumes. Carbon monoxide, carbon dioxide, nitrogen oxides.
- 5.3. Recommendations for Fire Fighting Teams** : Needed to extinguish a fire in an unlikely situation scuba mask, suitable protective gloves, wear safety goggles and protective clothing. Prevent fire extinguishing water from contaminating surface or groundwater.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures** Use personal protective equipment specified in Section 8. Avoid eye and skin contact. Do not breathe mist or vapor. Informing staff regularly about the dangers and preventive measures are required by the operating instructions.
- 6.2. Environmental Precautions** Pay attention to the sanitary sewer system.
- 6.3. Storage, Methods and Materials for Cleaning** and Absorb with earth as binding material. Dispose of as hazardous waste. Clean surfaces and objects spill immediately with plenty of water. Collect small amounts and transfer them to the waste water treatment plant with the water.
- 6.4. Citations to Other Sections** Disposal Information contained in part 13 'disposed of in accordance with the method described.

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Loading, unloading and usage should be very careful and should be done according to specific instructions. Packaging should be opened very carefully. goggles during use, such as gloves, protective measures must be taken.

7.2. Conditions for Safe Storage Involving Disputes

It should be kept away from moisture and heat ventilated environment. Avoid freezing. Store between 5 and 40 °C. Stability may be affected. Packaging should be closed tight. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Chemical Name	OSHA PEL: TWA	NIOSH TWA	TLV Ceiling	STEL (15 minutes)
5-Chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4 isothiazolin-3-one	Not listed.	Not listed.	Not listed.	Not listed.
Copper Sulfate	25 mg/m ³	-	-	-
Acetic acid	-	1 mg/m ³	-	-

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8.2. Exposure Controls

8.2.1. Appropriate engineering controls

Keep under appropriate or permitted the bulking agent in the general environment by providing local exhaust ventilation limits.

8.2.2. Personal protective equipment / hardware

8.2.2.1. Information on the use of personal protective equipment

Avoid eye and skin contact.

Avoid breathing vapor form.

Use only in well-ventilated place.

Keep away from foodstuffs, beverages and animal feed.

Contaminated Immediately remove all contaminated clothing.

Wash your hands after work and the work of breaks.

Avoid direct contact with eyes and skin.

Do not eat any food while using this material, do not drink. Do not smoke.

8.2.2.2. Detailed technical specifications for personal protective equipment

8.2.2.2.a. Eye / Face Protection: Use protective glasses or full face shield protected. Keep an eye bath and emergency safety bathroom installations in the workspace.

8.2.2.2.b. Skin Protection

Hand Protection: Nitrile or PVC gloves

Body protection: Wear suitable protective clothing should be worn. proper boots to prevent contact with skin, containing overalls or laboratory proof / waterproof . Wear protective clothing.

8.2.2.2.c. Respiratory Protection

You must use a mask if airborne concentrations above TLV limit. NIOSH-approved or EN 149 suitable respirator.

8.2.3. Environmental Exposure Controls

Conviction in the existing legislative framework for the protection of the environment must be met in full.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	: Turquoise Clear Liquid
pH (25 °C)	: 2,00 – 3,00
Density (g/cm3)	: 1,020 ± 0,020
Vapour density	: Not applicable.
Solubility	: Soluble in water. If necessary, pure water R. O. or may be diluted with demineralized water. It must never be diluted with hard water.

10. STABILITY AND REACTIVITY

10.1. Reaction: Does not react under normal conditions.

10.2. Chemical Stability: Stable under normal conditions.

10.3. Conditions to Avoid: Heat, sparks and humidity.

10.4. Materials to Avoid: Oxidizing agents, reducing agents, amines.

10.5. Hazardous Decomposition Products : Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxic Effects

The primary exposure under normal use conditions will occur by contact with skin and eyes.

11.1.2. Harmfulness class of the mixture

Flammable Liquid 3, H226

Skin corrosion, Category, 1B, H314

Aquatic Acute 1, H400

11.1.3. Acute Toxicity

5-Chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4 isothiazolin-3-one

LD 50 (rat) : 457 mg/kg (oral)

LD 50 (rabbit) : 660 mg/kg (dermal)

Acetic acid

LD50 (rat) : 3310 mg/kg (oral)

LD50 (rabbit) : 1112 mg/kg (dermal)

LC50 (mouse) : 5620 ppm/1 hour (inhalation)

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Copper Sulfate

LD50 (rat) : 300 mg/kg (oral)

LD50 (mouse) : 369 mg/kg (oral)

11.1.4 Additional toxicological information

Toxicological classification of content information is made based on information available and obtained.

11.1.5. In case it does not meet the classification criteria for a particular class of harmfulness

This article is to meet the classification criteria. (Section 2.1)

11.1.6. Information about possible exposure routes

Ingestion (swallowing): NIOSH-approved or EN 149 suitable respirator.

Inhalation: Corrosive and eyes, skin, severe irritation in the respiratory tract and upper digestive tract causing severe damage.

Skin / Eye: Severe irritant, corrosive.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity data on this product for the evaluation of damage to the environment is not determined specifically. This section of the ecotoxicity of information and similar substances belonging to the information component.

12.1.1. Acute toxicity

5-Chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4 isothiazolin-3-one

Acute Fish Toxicity (LC50 96 Hours) : 0,28 mg/l *Lepomis macrochirus* (Bluegill sunfish)

Acute Fish Toxicity (LC50 96 Hours) : 0,19 mg/l *Oncorhynchus mykiss* (Rainbow trout)

Acute Algae Toxicity EC50 : 0,003 mg/l Marine algae (*Skeletonema costatum*)

Acetic acid

Acute Fish Toxicity (LC50 96 Hours): 88,92 mg/l

Acute Daphnia Toxicity (EC50 48 Hours): 32 mg/l

Acute Moss Toxicity (LC50 72 Hours): 90 mg/l

Copper sulfate

Acute Fish Toxicity (LC50 96 Hours) : 0,1-2,5 mg/l (Rainbow trout)

Acute Fish Toxicity (LC50 48 Hours) : 0,6 mg/l (Bluegill/Sunfish)

12.1.2. Mobility :

Liquid. Completely soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

12.2. Persistence and degradability

No data available.

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12.3. Bioaccumulation potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB Assessment

PBT : Not applicable. vPvB : Not applicable.

12.6. Other Negative Effects

Thinning (Decrease) Ozone Layer Potential : No information

Photochemical Ozone Production Potential : No information

Global warming (greenhouse effect) Potential : No information

There is no other adverse effects on the environment.

12.7. Additional Information

Do not allow the release to the environment, precautions against accidental emissions into the environment, transport and for information regarding the disposal of waste 6, 7, 13, 14 and 15 refer to sections.

13. DISPOSAL INFORMATION

Please note that containing residues of hazardous substances or contaminated with hazardous materials packaging, national regulations for collection and disposal of laboratory wastes.

13.1. Waste treatment methods

It is disposed of in accordance with local regulations. Waste water treatment system should be neutralized by dilution with water.

14. TRANSPORT INFORMATION

14.1. Un-No	: 3265
14.2. Proper UN Shipping Name	: CORROSIVE LIQUID, ACIDIC, ORGANIC, B.B.B
14.3. Transport Harmfulness Class	: 8
14.4. Packing group	: II
14.5. Tunnel Code	: E

15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Legislation for the specific substances and mixtures

Dated 30.12.2013 and numbered 28867 published in the official newspaper Regulations on Control of Major Industrial Accidents,

Dated 12.08.2013 and numbered 28733 in Working with Chemical Regulation on Health and Safety Precautions.

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16. OTHER INFORMATION

Revision Changes

Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures (OG 13/12 / 2014-29204), wherein the re-arranged.

Reference Resources

Regulations.

Classification Method

'Classification of substances and mixtures, Labelling and Packaging Regulation on' is classified under.

Abbreviations

OSHA : The Occupational Health and Safety Agency

PEL : It may be permissible exposure limit

TWA : As measured by the 8-hour time-weighted average and the calculated reference time.

NIOSH : National Institute for Occupational Safety and Health

NIOSH IDLH : NIOSH Health and life immediately changes that may be dangerous

TLV : Threshold Limit Value

STEL : Unless another time, for 15-minute exposure limit value should not be exceeded.

Expression of Harmfulness

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

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P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash water thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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): Remove/Take off immediately all contaminated clothing. Rinse skin.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see ... on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container according to national and local regulations.

- More detailed information could be obtained from Deren Kimya San.ve Tic.A.Ş.
- This Material Safety Data Sheet is prepared by Deren Kimya San.ve Tic.A.Ş. using the world literature. The given informations could not be sufficient in every cases.

Turkey Toxicology Center Emergency Telephone : 08003147900

PREPARED BY: MANOLYA ERBEK

CERTIFICATION PREPARATION SDS NUMBER: SDS 1771

This Safety Data Sheet has been prepared based on the information given by the manufacturer.