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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 : DERFOS

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

Application : Scale and corrosion prevention for boiler water

1.3. Details of the supplier of the safety data sheet

Company Name : Deren Kimya San. ve Tic. A.Ş.
Address : Hasanpaşa, Kurbağalıdere Cad. Nabizade Sk. No:76/A
Kadıköy-İSTANBUL
Phone : 0216 449 67 67 - Pbx
Fax : 0216 449 67 75

1.4. Emergency telephone number

Emergency Information : 0262 658 27 01
Emergency First Aid Center : 112
Poison Information Center : 114
Fire Department : 110

2. HAZARDOUS IDENTITY INFORMATION

2.1. Classification of the substance or mixture

Skin corrosive, Category 1B, H314

2.2. Label Elements

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

GHS İşareti



Words of Warning

Danger

2.3. Other Damages

No data available.

Expression of Harmfulness

H314 Causes severe skin burns and eye damage.

Precautionary Statement

P260 P264 P280

P301+P330+P331

P303+P361+P353

P363 P304+P340

P310

P321 P305+P351+P338

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*
Sodium hexametaphosphate	272-808-	68915-31-1	10<...<15	Skin Irritation 2	H315
The neutralized polycarboxylic acid	-	-	4<...<8	-	-
Sodium hydroxide	215-185-5	1310-73-2	2<...<5	Skin corrosive 1B	H314

* 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: Dust / smoke / gas / mist / vapor / Do not breathe 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.

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. This material may cause the release of carbon dioxide and carbon monoxide during disposal. Sodium oxide may cause the formation of fumes.

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.

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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** 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

Havalandırılmış ortamda nemden ve ısıdan uzak tutulmalıdır. Ambalajlar sıkı kapatılmış olmalıdır. Asitlerden, metallerden, yanıcı maddelerden, peroksitlerden, halojenli hidrokarbonlardan uzak tutulmalıdır.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Chemical Name	OSHA PEL: TWA	NIOSH IDLH	TLV Ceiling	STEL(15 dak.)
Sodium hydroxide	2 mg/m ³	10 mg/m ³	2 mg/m ³	2 mg/m ³
Sodium hexametaphosphate	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable)	-	-	-

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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	: Colorless Clear Fluid
Odor	: Characteristic
pH (25 °C)	: 11-12
Flashing Point	: No application required
Vapour density	: Not applicable
Solubility	: Soluble in water. If necessary pure water R.O. Or diluted with demineralised water. It is absolutely not diluted with hard water.

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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 and humidity.

10.4. Materials to Avoid: Acids, Halogenated hydrocarbons, Organic nitro compounds, Magnesium, Oxidizing agents, Peroxides.

10.5. Hazardous Decomposition Products: Depomation under heat can remove carbon dioxide and monomer fumes.

11. TOXICOLOGICAL INFORMATION

11.1. nformation 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

Skin corrosive, Category 1B, H314

11.1.3. Acute Toxicity

Sodium hydroxide

LD100 (rabbit): 500mg / kg (oral)

LD 50 (rat): 40 mg / kg

LD50 (rabbit): 1350 mg / kg

Sodium hexameta phosphate

LD 50 (rat): 6600 mg / kg (oral)

LD 50 (rabbit): > 7940 mg / kg

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.

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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

Sodium Hydroxide [CAS # 1310-73-2]:

Acute Fish Toxicity (LC50 96 h): 196 mg / l

Acute Daphnia Toxicity (EC50 48Saar): 40,38 mg / l

Acute Algae Toxicity (IC50 72 Hours): No information

Acute Crusting Toxicity (EC50 for 48 hours): 40.4 mg

12.1.2. Mobility (Mobility): Liquid. Completely soluble in water. When determining environmental mobility, do not take into account the chemical and physical properties of the product (see Chapter 9).

12.2. Persistence and degradability : No data available.

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.

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14. TRANSPORT INFORMATION

14.1. Un-No	: 1760
14.2. Proper UN Shipping Name	: CORROSIVE LIQUID, 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.

16. DİĞER BİLGİLER

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.

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Hazard statements

H314 Serious Causes skin burns and eye damage.

H319 Causes serious eye irritation.

Precautionary statements

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

P264 After handling, flush thoroughly with plenty of water.

P280 Use protective gloves / protective clothing / eye protection / face protection.

P301 + P330 + P331 IN BREAST: Shake the mouth. Do not squeeze

P303 + P361 + P353 IF INHALED WITH LEATHER (or hair): Remove / Take off all contaminated clothing immediately. Rinse your skin with water / shower.

P363 Wash your contaminated clothing before reuse.

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

P310 Immediately call 114 NATIONAL TELEPHONE or doctor / physician at NATIONAL POISON ADVISORY CENTER.

P321 Special intervention required (see label).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses and contact lenses. Keep pausing.

P405 Keep it under lock.

P501 Content / container Dispose of 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**

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CERTIFICATION PREPARATION SDS NUMBER: SDS 2371

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