

	DERCLEAR 80	Page No : 1/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
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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 : DERCLEAR 80

1.2. Relevant identified uses of the substance

or

mixture and uses advised against

Reverse Osmosis membrane cleaners (acidic).

Application

1.3. Details of the supplier of the safety data sheet: Deren Kimya San. ve Tic. A.Ş.

Company Name : Hasanpaşa, Kurbağalıdere Cad. Nabizade Sk. No:76/A
Adress : Kadıköy-İSTANBUL
: 0216 449 67 67 - Pbx
: 0216 449 67 75
Phone
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

Eye irritation 2, H319

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

H319 Causes serious eye irritation.

Precautionary Statement

P264 P280

P305+P351+P338

P337+P313

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

	DERCLEAR 80	Page No : 2/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
---	--------------------	--

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EC No	Cas No	Concentration Range (%)	Class	H Phrases*
Citric acid	201-069-1	5949-29-1	25<...<35	Eye irritation 2	H319
The neutralized anionic polymer	-	-	5<...<10	-	-

* 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.

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** : These substances may cause decomposition during the diffusion of carbon dioxide and carbon monoxide.
- 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.

	DERCLEAR 80	Page No : 3/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
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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

It should be kept away from moisture and heat ventilated environment. Packaging should be closed tight. Oxidizing agents, bases should be kept away from metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Chemical Name	OSHA PEL: TWA	NIOSH TWA	TLV Ceiling	STEL (15 minutes)
Citric acid	-	-	-	-
The neutralized anionic polymer	-	-	-	-

8.2. Exposure Controls

8.2.1. Appropriate engineering controls

No data available.

	DERCLEAR 80	Page No : 4/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
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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 Liquid
Odor	: Odorless
pH (25 °C)	: 1,00 - 2,00
Density (g/cm³)	: 1,060-1,080
Flashing Point	: Not applicable.
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.

	DERCLEAR 80	Page No : 5/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
---	--------------------	--

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:** Keep away from high temperatures.
- 10.4. Materials to Avoid:** Alkali metals, oxidizers.
- 10.5. Hazardous Decomposition Products :** It can remove carbon dioxide and carbon monoxide under heat.

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

Eye irritation 2, H319

11.1.3. Acute Toxicity

Citric acid

LD50 (rat) : 3000 mg/kg (oral)

The neutralized anionic polymer

No data available.

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.

	DERCLEAR 80	Page No : 6/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
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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

Citric acid [CAS# 5949-29-1]:

Acute Fish Toxicity

LC50 (96 Hours) : 440-760 mg/l (Leuciscus idus)

EC50 (72Hours) : 120 mg/l (Daphnia manga)

Acute bacterial toxicity

EC5 (16 Hours) : >10000 mg/l (Pseudomonas putida)

The neutralized anionic polymer

No data available.

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

The methods for determining biodegradability are not applicable to inorganic substances.

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.

	DERCLEAR 80	Page No : 7/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
---	--------------------	--

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	: It is not classified as hazardous.
14.2. Proper UN Shipping Name	: It is not classified as hazardous.
14.3. Transport Harmfulness Class	: It is not classified as hazardous.
14.4. Packing group	: -
14.5. Tunnel Code	: -

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. 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.

	DERCLEAR 80	Page No : 8/8 Date of Issued : 07.02.2001 SDS No : EÖ/0052 Revision No : 04 Date of Revision : 10.08.2015
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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

H319 Causes serious eye irritation.

Precautionary Statement

P264 Wash water thoroughly after handling.

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

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

P337+P313 If eye irritation persists: Get medical advice/attention.

- 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: ELİF ÖZDEMİR

CERTIFICATION PREPARATION SDS NUMBER: GBF 1770

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