

SAFETY DATA SHEET

according to Regulation (EC) No. 453/210

Version 2015.1 Revision Date 24.07.2015

Print date 24.07.2015

GENERIC EU MSDS – NO COUNTRY SPECIFIC DATA – NO OEL DATA

1. Identification of the substance or the preparation and of the company.

1.1 Product identification:

Product code : **2573**

Product name :

eOx[®] Blackremover

Trade names

eOx[®] Blackremover

Relevant identified uses

Cleaning and degreasing of heavy contaminated stainless steel surfaces

Relevant identified uses of the substance or mixture and dissuade use:

Relevant identified uses:

Cleaning and degreasing of heavy contaminated stainless steel surfaces

1.2 Details of the supplier of the safety data sheet

eOx Deutschland

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1.3 Emergency telephone number:

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2. Identification of the risks

2.1 Classification of the substance/mixture:

Classification according to Regulation (EG) nr. 1272/2008

Corrosive to metals	Category 1	Warning	Met. Corr. 1	H290
Skin Corrosion	Category 1B	Danger	Skin Corr. 1B	H314
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 – Warning (STOT SE3; H335)				

Signal words: DANGER ; GHS05-GHS07



HAZARD STATEMENT

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

PRECAUTIONARY MEASURES

P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P304 + P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing.**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P309 + P311** IF exposed or if you feel unwell: Call a POISON CENTER or doctor.**P234** Keep only in original container**P501** Dispose of this material and its container to a hazardous or special waste collection point

OTHER HAZARDS

Physical/chemical hazards : Attacks metals with liberation of hydrogen gas.

The corrosive vapors are heavier than air, and spread through the floor.

Hazards for the health : A health dangerous concentration in the air will very quickly be reached by evaporation of this substance at app. 20°C; even faster by spraying.**Hazards for the environment** : Product causes a strong drop of the pH-value of water and soil.

This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).

Hazards for the safety : No significant danger.

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3. Composition and information on ingredients

3.1 Substances

Ingredient:	Weight %	Information :
Hydrochloric acid	< 25%	CAS Nr. 7647-01-0 EINECS 231-595-7 EG annex-Nr. 017-002-01-x REACH Reg. Nr. 01-2119484862-27 CLP Classification Met Corr. 1 Skin Corr. 1B STOT SE3 Icon GHS05-GHS07 H-phrases H290;H314;H335 Symbol C, Xi R-phrases R34-R37
Phosphoric acid	<40%	CAS Nr. 7664-38-2 EINECS 231-633-2 EG annex-Nr. 015-011-00-6 REACH Reg. Nr. 01-2119485924-24 CLP Classification Met. Corr. 1 Skin Corr. 1B Icon GHS05 H-phrases H290;H314 Symbol C R-phrases R34

Nota B (Regulation (EC) No 1272/2008) applies to the product or one or more of its components. Note: SCL applicable

4. First aid measures.

Contact with the eyes

Immediately Rinse the eyes with opened eyelid long enough (minimum 15 minutes) with lukewarm water if possible. Look for the presence of contact lenses and remove them. Then consult a (eye-) doctor IMMEDIATELY. (Keep on rinsing if possible)

Contact with the skin

In case of contact wash Immediately with water and soap. With large quantities remove contaminated clothing, rinse skin with plenty of water or shower. Wash garment before using again.

Ingestion

DO NOT INDUCE VOMITING Rinse mouth with water (Never give an unconscious to drink because of risk of choking) Loosen tight fitting clothes, such as shirt, collar, necktie or belt. Consult a doctor IMMEDIATELY

Inhaling aerosol or vapour in high concentrations

Bring person in fresh air, keep warm and relaxed. If the victim is not breathing, administer artificial respiration and seek medical advice.

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5. Fire fighting measures

Suitable extinguishing media	Lots of water Not suitable: Extinguishing powder Class D, Heavy water
Unusual fire/explosion hazards	In a fire, toxic (Chlorine) and corrosive fumes can release.
Protection of fire fighters	In the immediate vicinity of the fire use a self-contained breathing device.

6. measures by the accidental release of the substance or preparation

Personal precautions	Keep away from any possible source of ignition (open flames, sparks, smoke, ...) Evacuate personnel immediately and ensure adequate ventilation. Avoid inhalation of vapors and contact with eyes, skin and clothing. Wear appropriate personal protective equipment. (See Section 8)
Environmental precautions	Stop leaks if possible without risk. Dike the spilled material as possible with inert material. Prevent entering the product in open water, sewage or soil. Notify authorities if the product is facing allegations drains or open water
Cleaning Methods	Stop leak if safe to do so. Absorb with dry soil, sand or other non-flammable material. Collect the waste product in suitable containers for waste disposal.

7. Handling and storage

Handling	The usual precautionary measures when handling chemicals should be respected. Avoid inhalation of vapors and contact with eyes, skin and clothing Wear suitable personal protective equipment. (See Section 8) In the immediate vicinity of any potential source of exposure there must be safety goggles and emergency showers available.
Storage	Keep only in original container tightly closed in a dry, well ventilated and fireproof place. All hazardous products must be placed on a drip tray.
Storage together with other substances	Oxidizing agents, Base
Packaging materials recommended	Steel covered with Ebonite or Enamel or Graphite or Rubber , PVC , Polyethylene , Polypropylene , Glass .
Packaging materials NOT recommended	Steel , Lead , Aluminium , Iron , Copper , Tin , Zinc , Nickel , Bronze .

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8. Exposure controls/personal protection

Technical measures

Make sure eye washes and safety showers are near the work place,
Ventilate area

Exposure limit value

Hydrochloric acid ...% : Limit value (BE) : 5 ppm (8 mg/m³) (2011) Hydrochloric acid ...% : Short time value (BE) : 10 ppm (15 mg/m³) (2011) Hydrochloric acid ...% : Limit value (TWA 8 h) (NL) : 5 ppm (8 mg/m³) (2007) Hydrochloric acid ...% : Limit value (TWA 15 min) (NL) : 10 ppm (15 mg/m³) (2007) These will be added as they become available.

Biological tolerance values

DNELs

Hydrochloric acid ...% : Worker, acute - local effects, inhalation : 15 mg/m³

Hydrochloric acid ...% : Worker, long-term - local effects, inhalation : 8 mg/m³

PNECs

Hydrochloric acid ...% : Fresh water sediment : Not relevant.

Hydrochloric acid ...% : Marine water sediment : Not relevant.

Hydrochloric acid ...% : Fresh water : 0,036 mg/l

Hydrochloric acid ...% : Marine water : 0,036 mg/l

Hydrochloric acid ...% : Soil : 0,036 mg/l

Hydrochloric acid ...% : Intermittent release : 0,045 mg/l

Hydrochloric acid ...% : Sewage treatment plant : 0,036 mg/l

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Occupational Hygiene

When you are working do not eat, drink or smoke. Wear personal protective equipment.

Mouth-nose protection

Required on not enough ventilated work areas.
Respiratory protection (Combination Filter Type FFP2).

Skin and body



Wear suitable protective clothing (overall, preferably thick cotton or disposable protective clothing), gloves and eye/face protection. Chemical-resistant shoes. Take off immediately all contaminated clothing. Store working clothes separate.

Hands



Suitable material for safety gloves (EN 374):
Butyl rubber : penetration time > 480' - thickness 0,5 mm
Nitril rubber : penetration time > 480' - thickness 0,35 mm
PVC : penetration time > 480' - thickness 0,5 mm

Eyes



Wear full face shield if splashing is possible. Safety glasses and face shield. Use an eye shower and/or rinse your eye

9. Physical and chemical properties

Physical state	Liquid
Colour	Black / Brown
Odour	Characteristic acid
pH	< 1 at 20°C
Boiling point	No data available
Flash Point	N/A
Upper Limit	No data available
Lower Limit	No data available
Vapour Pressure	No data available
Relative density	± 1,33
Solubility in water	Fully
Viscosity	n.a.
Vapour Density	n.a.
Evaporation Rate	--

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10. Stability and reactivity

Stability	Stable under normal temperature and pressures Store away from heat/moisture
Conditions to avoid	Keep frost-free, avoid high temperatures and direct sunlight
Hazardous decomposition products	Exothermic reaction with: Water , Bases . Reacts with Oxidizing agents => Creation of: Chlorine. Reacts with Formaldehyde => Creation of: Dichlorodimethylether Contact with metallic substances may release inflammable hydrogen gas.
Materials to avoid	Oxidizing agents , Bases (Formaldehyde , Sodium hypochlorite , ...).

11. Toxicological information

Acute toxicity:

The following reviews of health hazards is based on an assessment of the different components of the product

Effects on the eyes	Product can be corrosive to the eyes. Symptoms: redness, pain, poor vision
Effect on the skin	Stinging to skin . Symptoms include: Redness , Pain , Severe burns . Hydrochloric acid ...% : LD50 (Rabbit, dermal) : > 5000 mg/kg
Inhalation	The product may cause irritation to the respiratory organs Symptoms: Coughing, shortness of breath, sore throat
Ingestion	Tooth erosion may occur . Symptoms include: Burning pain in mouth, throat, oesophagus and stomach , Vomiting , Diarrhea , Reduced blood pressure , Unconsciousness . • Hydrochloric acid ...% : LD50 (Rat, oral) : 238-277 mg/kg
Skin corrosion / irritation	Causes severe burns
Serious eye damage / eye irritation	Causes serious eye damage
Aspiration hazard	The product may affect the upper and lower airways, causing infections and impaired lung function.
Respiratory / skin	In guinea pigs: No sensitization.
Carcinogenicity	Not classified as a carcinogen (carcinogenic).
Mutagenicity	Not classified as mutagenic
Toxic effects on reproduction	Not classified as reprotoxicity
Specific target organ toxicity - single exposure	In humans : Not classified for organ toxicity. No known effects: In animals.

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Specific target organ toxicity -
repeated exposure

In humans: Not listed for toxicity

12. Ecological information

Eco toxicity	Hydrochloric acid ...% : EC50 (Daphnia magna, 48 h) : 0,45 mg/l (pH 4,9) Hydrochloric acid ...% : EC50 (Algae, 72 h) : 0,73 mg/l (pH 4,7) Hydrochloric acid ...% : LC0 (Fish, 96 h) : 20,5 mg/l (pH 3,25-3,5)
Mobility Persistence and degradability	Hydrochloric acid ...% : Mobility : Completely soluble in water . Hydrochloric acid ...% : Persistence and degradability : Inorganic .
Bio accumulative potential	Hydrochloric acid ...% : Bioaccumulation : Bioaccumulation not expected
Other harmful data	Do not let product come on the surface water undiluted.

13. Disposal considerations

Waste	Dispose waste and empty packaging in accordance with statutory requirements through an approved disposal.
Eural code for waste processing	For this product a waste code number in accordance with the European waste catalogue cannot be granted, since only the intended user makes classification possible. The waste code number should be assigned in consultation with the local disposal.
Empty packaging	Removal as waste according to local and national prescriptions

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14. Transport information**Classification as ADR material for road transport**

UN number	3264
ADR class	8, III (E)
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid/Hydrochloric acid)
Packing Group	III
ADR label	8

**Classification as IMDG material for sea transport**

UN number	3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid/Hydrochloric acid)
Packing Group	8, III
IMDG label	8
EmS:	F-A, S-B
Marine pollutant	No data available



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15. Regulation**15.1 WGK Class**

1; schwach wassergefährdend, Weak water pollutant

15.2 Chemical Safety Assessment:

No data.

15.3 regulatory lists searched:

01=EU. Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.

02=EU. Directive 90/394/EEC: Carcinogens at work.

03=EU. Directive 92/85/EEC: Pregnant or breastfeeding workers

04= EU. Directive 96/82/EC (Seveso II) : Article 9

05= EU. Directive 96/82/EC (Seveso II) : Articles 6 and 7

06= EU. Directive 98/24/EC : Chemical agents at work

07= EU. Directive 2004/37/EC : On the protection of workers.

08= EU. Regulation EC No. 689/2008 : Annex 1, Part 1.

09= EU. Regulation EC No. 689/2008 : Annex 1, Part 2.

10= EU. Regulation EC No. 689/2008 : Annex 1, Part 3.

11= EU. Regulation EC No. 850/2004 : Prohibiting and restricting persistent organic pollutants (POPs).

12= EU. REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous Substances, mixture & article.

13= EU. REACH, Annex XIV: Candidate List of Substances of Very High Concern for Authorization (SVHC).

16. Other information**16.1 List of relevant R- and H- phrases from section 2 and 3 :**

H290	May be corrosive to metals
H314	Causes severe burns and eye damage
H335	May cause respiratory irritation
R34	Causes burns
R37	Irritating to respiration system

16.2 Abbreviations used in this document:

Nr. CAS	Number
EINECS	Chemical Abstracts Service
WGK	European Inventory of Existing Commercial chemical Substances
ADR	Water Danger Class
	Accord europeen relative au transport international des marchandises
TLV	Dangereuses par Route
PTB	Threshold Limit Value
CLP	Persistent, toxisch, bioaccumulerend
	Classification, Labeling and Packaging of chemicals

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Information Sources:

This information is based on the current available data (producers of raw materials, Chemistry maps, ...)

All information contained in this safety data sheet is to the best of our knowledge and in accordance with the latest knowledge and understanding. Our company cannot guarantee that the information in the safety data sheet is completely accurate and complete. The provision of this safety data sheet from liability to the user of this product may not be able to assess the safety, health and environmental advice for their particular situation and application. It is an obligation for the user to use this product with care and the applicable legal provisions. The information in the safety data sheet shall be held by us in good faith and to our best knowledge and belief.

Explicit or implicit guarantee is not given.

Safety data sheet in accordance with Regulation (EU) nr. 453/2010 of the European Parliament and of the Council of 18 December 2006 on the assessment and authorization and restriction of chemicals (REACH)