



## CLEANOX 2

### Safety data sheet

According to EU-Rules Nr. 1907/2006 / EG Reach  
(EU) 2015/830  
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#### 1. Substance/preparation- and company name.

Details on the product

name: Cleanox 2  
supplier: HS-Cleaner Werner Krauter GmbH,  
Siemensstraße 2-5, D-73037 Göppingen  
telephone: 07161 / 9383-123, Telefax 07161 / 9383-1355  
emergency information: see above

#### 2. composition/details on components.

Chemical characterisation:

Watery preparation from weak acidic components  
and auxiliary materials.

Dangerous content substances:

CAS-Nr:	description	Wt-%	classification
7664-38-2			
7664-93-9	mineral acid	1 - 11	C R34-35

#### 3. Possible dangers of the preparation.

Hazard description:

corrosive

Special explanation of dangers:

For human and environment

Irritates the eyes and the skin

Water endangering class:

1

Corrosiveness to metal:

H290



GHS05



GHS07

Identifikation ( $\leq 125\text{ml}$ )  
(67/548/EWG or 1999/45/EG)



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#### 4 First-Aid measures

General explanation:

After skin contact:

After eye contact:

After swallowing:

change dirty clothes

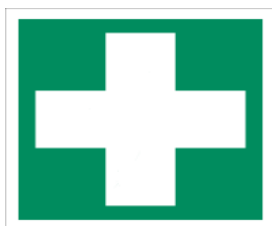
rinsing off with water and soap

Washing eyes with water for long time

thoroughly.

Not causing any vomiting.

consult a doctor immediately



#### 5. Fire-fighting measures

Suitable deleting means.:

the product is not flammable

For safety reasons

Unsuitable deleting means:

full jet of water

Endangering specially by the substance, its waste products of combustion or arising gasses:

may built up SO<sub>2</sub>, H<sub>2</sub>S

Special protective equipment: Carrying air recycling dependent breathing apparatus.

Special dangers:

At contact with metals can form hydrogen gas (danger of explosion!)





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#### 6. Accidental release measures

Person drawee precautions.:

Keep unprotected persons away  
Wear protective clothing

Environmental precautions:

Not letting electrolyte reach the sewage system,  
waters and soil.

Method of cleaning up/admission.:

Soak up with innered absorbent material  
Disposing of contaminated material duly.

#### 7. Handling

Indications for secure dealing.:

Wear protective clothing  
Avoid the formation of aerosols

Indications for the fire and explosion protection:

No special measures required

Storage:

Keeping containers locked thick at room  
temperature and store it at a place that is ventilated  
well and dryly.

Further details:

Acid-resistantly floor, don't use metal containers.  
Offering protection against frost

#### 8. Exposure controls and personal protection

Technical protection measures: See point 7

Personal protection equipment:

General protection and hygiene explanations:

Avoid direct eye contact, do not eat, drink or smoke during the work  
Before the breaks and after finishing work wash your hands.

Respiratory protection:

At aerosol formation

Hand protection:

Impermeable protective gloves

Eye protection:

Safety goggles

Body protection:

Adequate working clothes/  
protective clothing.



Protective gloves



glasses



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#### 9. physical and chemical attributes

**Form:** liquid, syrupy

**Color:** Physically colorless, clear to light yellow

**Odor:** Odorless / not determined

Odor threshold: not determined

**Value** unit method

**Flash point:** not determined / applicable

**Density:** at 20 ° C 1.685 -1.69 g / cm<sup>3</sup>

**Solubility in water:** soluble, completely miscible

**Melting point** 21 ° C

**Boiling point:** 158 ° C

Decomposition temperature 300 ° C

Explosive properties: The product is not explosive

Vapor pressure at 20 ° C 0.22 mbar

**pH value** at 20 ° C (10g / l) 1.7

**Vapor pressure** at 50 ° C 18 22 Hg

**Kinematic viscosity** at 20 ° 38 x (DIN 53211/4)

#### 10. Details on toxicologie

Irritancies to skin and eyes.

#### 11. Details on ecology

Water endangering class: 1(self-classification)

Not letting condensed extract reach the sewage system, waters and soil.

#### 12 Details on disposal

Product recommendation:

Not letting it reach the sewage system

Disposing not together with domestic garbage

Disposing normally after neutralization on /(pH) 7.

Disposal key:

Waste no. 060106 not halogenous organic acids.



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**14. Details on transport**

No obligation duties according to the transport Regulation

Not listed  
UN- Number: 3264  
class: 8  
Packaging group: III  
Tunnel restriction code: E  
**ADN-not relevant**  
**ADR , IMDG, IATA: III**  
**IATA = lookADR/RID**  
**Marine pollutant: no**



**Class** 8 (C1)  
**Label** 8

**Kemler-Number:** 80  
**EMS-Number:** F-A, S-B  
**Segregations groups:** acids  
**Stowage category:** A



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#### **15. Regulations**

Identification according to the hazardous materials ordinance: corrosive  
Besondere Kennzeichnung: No obligation duties on preparation  
Water endangering class: 1 (self-classification)  
R-sentences: corrosive  
VBF: Not listed

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

Directive 2012/18 / EU  
Named dangerous substances  
Regulation (EC) No. 1907/2006

National regulations:

Notes on employment restrictions:  
Observe the Maternity Protection Directive (MuSchRiV) (92/85 / EEC)  
Observe the Youth Labor Protection Act (JArbSchG) (94/33 / EEC)  
Classification according to the Ordinance on Industrial Safety and Health (BetrSichV):  
Substances or mixtures corrosive to metals

Water hazard class:  
VwVwS (Germany) from May 17, 1999  
WGK 1 (list classification) slightly hazardous to water.  
ID no: 392

Other regulations, restrictions and prohibition regulations.  
Regulation 1272/2008 / EC of the European Parliament and of the Council of December 16, 2008 on the classification, packaging and labeling of substances and mixtures, amending and repealing directives 67/548 / EEC and 1999/45 / EC and amending the regulation 1907/2006 / EG, with supplements.

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of February 18, 2006 on the registration, evaluation, authorization and restriction of chemical substances (REACH), with amendments.

This safety data sheet (SDS) corresponds to Regulation (EU) No. 453/2010, which replaces Annex II of Regulation (EC) No. 1907/2006 (Reach).



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Directive 2008/98 / EC of the European Parliament and of the Council of November 19, 2008 on waste, Regulation of the European Parliament and of the Council (EC) No. 648/2004 on detergents, COMMISSION REGULATION (EU) No. 231/2012 of March 9, 2012 with specification for the food additives listed in Annexes II and II of Regulation (EC) No. 1333/2008 of the European Parliament and of the Council, Regulation (EC) No. 1831/2003 of the European Parliament and of the Council of 11.09.2003 on additives for use in animal nutrition.

BG data sheet: BGI 595 "Irritant substances / corrosive substances" (ZH1 / 229) (M004)  
International regulations:

**TSCA** (Toxic Substances Control Act) (USA): This substance is listed.

**ENCS** (Japan): MITI no: (1) -422

**ISHL** (Japan): MITI no: (1) -422

**AICS / NICNAS**: (Australian Inventory of Chemical Substances) (Australia): Listed in AICS

**DSL / NDSL** (Domestic Substance List ((Canada): Listed in DSL. Not listed in NDSL.

**PICCX** (Philippine Inventory of Chemicals and Chemical Substances ((Philippines)): This substance is listed.

**ECL** (Existing Chemical List) (Korea): KE no: KE-27427

**KECI** (Korea): KE no: KE-27427

**NZIOC** (New Zealand): This substance is listed.

**IECS** (Inventory of Existing Chemical Substances in China ((China)): This substance is listed.

More information:

New Zealand:

ERMA: HSNO Approved: Yes

ERMA: Application code: TRS05002

ERMA: Approval code: HSR001571

Taiwan: Not listed in list of toxic chemical substances

Chemical safety assessment: A chemical safety assessment has been carried out.



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#### **16. Other details**

The details in this safety data sheet are based on today's stand of our knowledge and serve to describe the product with regard to the safety precautions to be taken. They don't represent any assurance of product qualities, however, and don't give reasons for any contractual facts of the case.

##### **Abbreviations and acronyms:**

**RID:** Reglement international concernant le transport des marchandises danereuses par chemin de fer (Relulations Concerning the International Transport of Danerous Goods by Rail)

**ICAO:** International Civil Aviation Organization.

**ADR:** Accord europeen sur le transport des marchandises danereuses par Route (European Agreement concerning the International Carriage of Dangerous Good by Road)

**IMDG:** International Maritime Coder for Dangerous Goods

**IATA:** International Air Transport Association

**GHS:** Globally Harmonized System of Classification and Labeling of Chemicals

**EINECS:** European Inventory of Existing Commercial Chemical Substances

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

**DNEL:** Derived No-Effect Level (Reach)

**LC50:** lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

**PBT:** Persistent, Bioaccumulative and Toxic

**SVHC:** Substance of Very High Concern

**vPvB:** very Persistent and very Biaoaccumulative

**Met. Corr. 1:** Corrosive to metals - category 1

**Acute Tox 4:** Acute Toxicity \_ Category 4

**Skin Corr. 1B:** Skin irritation / corrosive effects category 1B

The key or legend for the abbreviations and acronyms used in the safety data sheet can be found at [www.wikipedia.de](http://www.wikipedia.de).