

# SAFETY DATA SHEET

## InnoRens B430

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 15.10.2015

Revision date 15.10.2015

#### 1.1. Product identifier

Product name InnoRens B430

Chemical name Mixture, see section 3.

REACH Reg. No., Comments See section 16.

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

Use of the substance/preparation Cleaning Liquid for removal of lime, magnetite, oxides (corrosion), humus, salt and other deposits. The product is used in piping systems, vacuum systems, heat exchangers or dipping baths .  
The product has about the same effect as pickling stainless material. Kills bacteria and Legionella in water systems.

#### 1.3. Details of the supplier of the safety data sheet

Company name Krontech AS

Postal address Tors vei 6

Postcode 3216

City Sandefjord

Country Norge

Tel 33 46 09 90

E-mail post@krotech.no

Website <http://www.krontech.no/>

#### 1.4. Emergency telephone number

Emergency telephone Poison Centre:22 59 13 00

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification according to Skin Irrit. 2; H315

Regulation (EC) No 1272/2008 Eye Irrit. 2; H319

[CLP/GHS]

#### 2.2. Label elements

##### Hazard Pictograms (CLP)



Composition on the label Citric Acid:5 - 15 %, PhosPhoric Acid:< 10 %

Signal word Warning

Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements	P102 Keep out of reach of children. P405 Store locked up. 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. P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
--------------------------	---

### 2.3. Other hazards

PBT / vPvB	This product is not and does not contain a PBT or vPvB.
Description of hazard	Irritating to eyes and skin.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Citric Acid	CAS no.: 5949-29-1 EC no.: 201-069-1 Synonyms: 2-hydroxy-1,2,3-propanetricarboxylic acid.H2O (mono og anhydrat)	Eye Irrit. 2;H319;	5 - 15 %
PhosPhoric Acid	CAS no.: 7664-38-2 EC no.: 231-633-2 Index no.: 015-011-00-6	Skin Corr 1B;H314;	< 10 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	The product does not represent a risk of permanent damage.
Inhalation	The product releases no gases in concentrated form.
Skin contact	Flush with water. Rinse with water. Remove contaminated clothing. Consult a doctor if the pasient fell unwell.
Eye contact	Immediately flush with plenty of water for at least 5 minutes. Hold the eyelids open. Seek medical if irritation persist.
Ingestion	Drink water or milk. Seek medical if irritation persist.

### 4.2. Most important symptoms and effects, both acute and delayed

General symptoms and effects	Irritating to eyes and skin.
------------------------------	------------------------------

### 4.3. Indication of any immediate medical attention and special treatment needed

Other Information	Under normal circumstances it does not occur risks or health problems using the product. In case of doubt or persistent symptomer- search medical attention.
-------------------	--

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish surrounding fires with suitable extinguisher
------------------------------	---

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is not flammable.
----------------------------	-------------------------------

### 5.3. Advice for firefighters

Personal protective equipment	Use required personal protective equipment. In case of insufficient ventilation wear respiratory protection.
-------------------------------	--

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	Flush with water. For large spills, use sodium hydroxide for neutralization.
------------------	--

#### 6.1.1. For non-emergency personnel

Protective equipment Use personal protective equipment as specified in clause. 8

### 6.1.2. For emergency responders

For emergency responders Use personal protective equipment as specified in clause. 8

## 6.2. Environmental precautions

Environmental precautionary measures Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Cleaning method Accidental release of large quantities of concentrate: Dilute with water, or attempt to catch up in suitable containers.

## 6.4. Reference to other sections

Other instructions See section 13 for further treatment of waste.

Additional information Used gel in dilution: None.  
The gel is biodegradable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling No special requirements. Use personal protective equipment as specified in section 8. Avoid contact with skin and eyes. Remove contaminated clothing immediately and wash skin thoroughly.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Keep product frozefree.

### 7.3. Specific end use(s)

Specific use(s) Cleaning Liquid for removal of lime, magnetite, oxides (corrosion), humus, salt and other deposits. The product is used in piping systems, vacuum systems, heat exchangers or dipping baths .  
The product has about the same effect as pickling stainless material. Kills bacteria and Legionella in water systems.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

Substance	Identification	Value	TWA Year
PhosPhoric Acid	CAS no.: 7664-38-2 EC no.: 231-633-2 Index no.: 015-011-00-6	8-hour TWA: 1 mg/m3	2013

### 8.2. Exposure controls

Limitation of exposure on workplace Ensure good ventilation. Ensure good hygiene. Wash affected skin.

#### Respiratory protection

Respiratory protection No special requirements.

#### Hand protection

Hand protection In direct contact with product, use gloves. Natural rubber, latex or PVC.

Reference to relevant standard Wear gloves that are resistant to chemicals according to standard EN 374: Protective gloves against chemicals and microorganisms.

#### Eye / face protection

Eye protection Use protective glasses if risk of directly contact with the eye.

Reference to relevant standard Eye protection must conform to EN 166.

#### Skin protection

Skin protection (except hands) Use protective clothing of Natural Rubber, Latex or PVC.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Green.
Odour	Insignificant.
pH (as supplied)	Value: 1,4
Boiling point / boiling range	Value: 101 °C
Specific gravity	Value: 1,14 g/cm <sup>3</sup>
Solubility in water	100%

### 9.2. Other information

#### Other physical and chemical properties

Comments	This safety datasheet only contains information relating to safety and does not replace the product information or product specification.
----------	---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	The product is stable under normal storage conditions.
------------	--

### 10.2. Chemical stability

Stability	Stable under normal conditions.
-----------	---------------------------------

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	In normal use there is no risk of dangerous reactions
------------------------------------	---

### 10.4. Conditions to avoid

Conditions to avoid	No special instructions. Avoid freezing.
---------------------	--

### 10.5. Incompatible materials

Materials to avoid	Bases/ alkaline substances/ preparations (inorganic).
--------------------	---

### 10.6. Hazardous decomposition products

Hazardous decomposition products	None known. See section 5.
----------------------------------	----------------------------

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological data for substances

Substance	Citric Acid
LD50 oral	Value: 11700 mg/kg Animal test species: Rat
Substance	PhosPhoric Acid
LD50 oral	Value: 1,53 g/kg Animal test species: Rat
LD50 dermal	Value: 2,74 g/kg Animal test species: Rabbit

#### Other information regarding health hazards

General	The extent of the injury is dependent on the concentration of the product and the duration of the contact with the tissue.
---------	--

#### Potential acute effects

Inhalation	Vapors and aerosols may cause irritation in the respiratory system.
Skin contact	Repeated and prolonged contact may have an irritating effect.
Eye contact	Moderately irritating.
Ingestion	If swallowed the product will have an irritating effect on the mucous membranes in the mouth, oesophagus and gastro-intestinal tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity Not regarded as dangerous for the environment.

### Toxicological data for substances

Substance	Citric Acid
Acute aquatic, fish	Value: 833 mg/l Method of testing: LC50 Species: rainbow salmon Duration: 96 h
Acute aquatic, fish LCLo	Value: 1516-1710 mg/l Method of testing: LC50 Species: Lepomis macrochirus Duration: 96 h
Acute aquatic, algae	Value: > 1200 mg/l Method of testing: IC50 Species: Navicula seminulum Duration: 7 days

### 12.2. Persistence and degradability

Comments, Biodegradability Biodegradable.

### 12.3. Bioaccumulative potential

Comments to bioaccumulation No adverse long-term effects on aquatic organisms.

### 12.4. Mobility in soil

Mobility Soluble in water.

Water solubility Value: 100 %

### 12.5. Results of PBT and vPvB assessment

PBT assessment results This product is not and does not contain a PBT.

vPvB evaluation results This product is not and does not contain a vPvB

### 12.6. Other adverse effects

Other adverse effects / Remarks The product contains phosphate. Large amounts of phosphorus can lead to undesirable algae growth in lakes and rivers.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal Flush with clean water, or dry up with a cloth. See section 6 for further information.

Product classified as hazardous waste No

## SECTION 14: Transport information

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

Comments See section 12.

### 14.6. Special precautions for user

Special safety precautions for user Avoid contact with eyes and skin.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Additional information.**

Additional information.	Not classified as dangerous goods (according to UN, IMO, ADR/RID and IATA/ICAO.)
-------------------------	--

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

References (laws/regulations)	COMMISSION REGULATION (EU) No 944/2013 of 2 October 2013 (ATP5). Commission Regulation (EU) No 453/2010 Annex II (Appendix II - "II"). Transport of hazardous goods: ADR, RID, IMDG, IATA (2015). European Parliament and Council Regulation (EC) 1272/2008.
-------------------------------	--

**15.2. Chemical safety assessment**

Chemical Safety Assessment	The information in this safety data sheet should not be regarded as the user's own risk assessment. It is always the user's responsibility to take all necessary steps in order to meet the requirements of the local rules and regulations.
----------------------------	--

**SECTION 16: Other information**

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Irrit. 2; H315; Eye Irrit. 2; H319;
List of relevant H-phrases (Section 2 and 3).	H315 Causes skin irritation. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation.
Additional information	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.  Reach No .: The registration number is not available for this product or the use of this is excluded by Article 2 of Regulation (EU) No. 1907/2006 on REACH, annual tonnage does not require registration or the registration is envisaged for a later registration deadline.
Version	1
Responsible for safety data sheet	Krontech AS