

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Trade name** BETO

**Article-no** 1302

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

**Product type** Rust remover.  
Pickling agent (metal).

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

**SDS created by** Intersolia Sweden AB

**Manufacturer** Trion Tensid AB

**Street address** Svederusgatan 1-3  
SE-754 50 Uppsala

**Telephone** +46 18 15 61 90

**Fax** +46 18 69 66 27

**Email** info@trion.se

### 1.4 Emergency telephone number

**Available outside office hours** Yes

**Emergency phone number** 999

### Other

Contact person: William Stomilovic  
Email: william.stomilovic@trion.se

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008, Annex VI

**Classification** Skin corrosion, hazard category 1B

**Hazard statements** H314

### 2.2 Label elements

#### GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

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**Pictogram****Signal word** Danger**Hazard statements** H314 Causes severe skin burns and eye damage.**Precaution statements**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
P310 Immediately call a POISON CENTER/doctor/  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.

### 2.3 Other hazards

Biodegradable. Contains components that are harmful to aquatic organisms.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	H-phrase
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24-	10 - 30%	Skin Corr. 1B	H314

**Substance additional information**

For the full text of the H phrases mentioned in this Section, see Section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation</b>	Fresh air and rest.
<b>Skin contact</b>	Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. If symptoms persist, call a physician. Corrosive injuries must be treated by a doctor.
<b>Eye contact</b>	Rinse immediately with a gentle, warm jet of water or eye wash for several minutes. Keep the eyes wide open. If easy to do, remove contact lens, if worn. Visit a doctor or hospital immediately. Continue to rinse during transport.
<b>Ingestion</b>	If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. Do not induce vomiting. Consult a physician.

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

<b>Inhalation</b>	Fumes can have a strong irritant effect.
<b>Skin contact</b>	Corrosive to strongly corrosive.
<b>Eye contact</b>	Permanent damage to vision, blindness.
<b>Ingestion</b>	Harmful: possible risk of irreversible effects if swallowed.

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

Ensure that eyewash stations and safety showers are close to the workstation location.

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## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	carbon dioxide (CO <sub>2</sub> ) or powder. Fire extinguishing methods: Water must only be used by firefighters.
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<b>Unsuitable extinguishing media</b>	Do not use a direct jet of water.
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### 5.2 Special hazards arising from the substance or mixture

When heated and in the event of a fire, corrosive fumes/gases can be formed.

### 5.3 Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	In the event of fire, wear self contained breathing apparatus. Wear suitable protective clothing.
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#### Other

Containers in the vicinity of fire should be moved immediately or cooled with water.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Use protective equipment as specified in section 8 of SDS. Avoid contact with: Skin and eyes.

### 6.2 Environmental precautions

Prevent major discharges to drains, groundwater and surface water. In the event of major discharges into water, contact the waterworks or sewage works.

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

Prevent spreading by banking up with sand, soil or other suitable material. Collect in a suitable container that is approved for this purpose. Rinse clean with plenty of water. In the event of major spillages, contact the emergency services.

### 6.4 Reference to other sections

Personal protection see section 8 and for disposal see section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Preventive handling precautions** Avoid: Spill, Skin and eye contact and oxidising substances and bases. Wear suitable protective clothing to prevent contact with the skin. Avoid inhaling fumes.

**General hygiene** Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

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

Plastic packaging. Keep tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store in a locked area that is inaccessible to children.

### 7.3 Specific end use(s)

This product should only be used for those uses described in section 1.2

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

National occupational exposure limits	Ingredient	CAS no.	EC No.	Exposure limit mg/m <sup>3</sup> -ppm		Short-term exposure limit mg/m <sup>3</sup> -ppm		Remark	Source	Year
				1	-	2	-			
	Phosphoric acid	7664-38-2	231-633-2	1	-	2	-	-	EH40/2005 Workplace exposure limits	-

### 8.2 Exposure controls

**Technical precaution measures** Ensure that eyewash stations and safety showers are close to the workstation location. The workplace and working methods are designed so as to prevent direct contact.

**Eye / face protection** Safety glasses with side-shields conforming to EN166.

**Safety gloves** Wear chemical-resistant protective gloves.  
When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374. Wear protective gloves made of: butylrubber, nitrile rubber or natural rubber.

**Other skin protection** Wear suitable protective clothing to prevent contact with the skin. Wash contaminated clothing before re-use.

**Respiratory protection** Breathing protection only in those cases where aerosol or mist can be formed. Wear breathing protection with a type B (grey) gas filter in the event of insufficient ventilation.

**Environmental exposure controls** Try to prevent the material from entering drains or water courses.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

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<b>Appearance, colour</b>	colourless
<b>Appearance, physical state</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Density</b>	1260 kg/m <sup>3</sup>
<b>Evaporation rate</b>	Not applicable
<b>Explosive properties</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Form</b>	Low viscosity liquid.
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Melting point / freezing point</b>	Not applicable
<b>Odour</b>	acidic
<b>Odour treshold</b>	Not applicable
<b>Oxidising properties</b>	Not applicable
<b>Partition coefficient: n-octanol / water</b>	Not applicable
<b>pH concentrate</b>	~1
<b>pH in solution</b>	~1
<b>pH value</b>	Not applicable
<b>Relative density</b>	Not applicable
<b>Solubility</b>	Miscible with water and alcohol.
<b>Solubility in water</b>	100 %
<b>Upper / lower flammability or explosive limits</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Viscosity</b>	Not applicable

### 9.2 Other information

Not applicable

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not applicable

*10.2 Chemical stability*

Stable under normal usage and storage conditions.

*10.3 Possibility of hazardous reactions*

Reacts strongly with alkalis.

*10.4 Conditions to avoid*

Not applicable

*10.5 Incompatible materials*

The product reacts with calciferous materials and dissolves them.

*10.6 Hazardous decomposition products*

Not applicable

## SECTION 11. TOXICOLOGICAL INFORMATION

*11.1 Information on toxicological effects*

This product can cause skin and eye irritation as well as burns (corrosive effect).

<b>Acute toxicity</b>	Harmful: possible risk of irreversible effects if swallowed.
<b>Skin corrosion / irritation</b>	Corrosive to strongly corrosive.
<b>Serious eye damage / irritation</b>	Permanent damage to vision, blindness.
<b>Irritation</b>	Fumes can have an irritant effect on the airways.
<b>Corrosive effects</b>	Corrosive to strongly corrosive.
<b>Sensitisation</b>	Not applicable
<b>Mutagenicity</b>	Not applicable
<b>Carcinogenicity</b>	Not applicable
<b>Repeated dose toxicity</b>	Not applicable
<b>Reproductive toxicity</b>	Not applicable
<b>LD50 Oral</b>	Phosphoric acid ( rat ) 1530 mg/kg
<b>LD50 Dermal</b>	Phosphoric acid ( rabbit ) 2740 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

*12.1 Toxicity*

<b>Aquatic</b>	Local discharges of large volumes into aquatic environments can harm aquatic organisms. Can change the water's pH.
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**Soil** Temporary large discharges or frequent smaller discharges can have a harmful or destructive impact on the environment. Large volumes can be harmful to plants.

**Acute fish toxicity** Phosphoric acid (LC50): (96h) 138 mg/l ( Type: Gambusia affinis).

### 12.2 Persistence and degradability

Biodegradable.

### 12.3 Bioaccumulative potential

Does not bioaccumulate

### 12.4 Mobility in soil

Not applicable

### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Other adverse effects

Not applicable

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Disposal considerations** Local provisions and EU provisions must be followed during waste handling. Prevent large discharges to drains. Local laws and regulations should be carefully observed. Do not use metal containers. Containers with residual content constitute hazardous waste. Packages can be cleaned and recycled. The company is affiliated to REPA.

### Other

**Waste management** The Waste Regulations 2011 No. 988  
H 8 Corrosive: The waste contains a substance or preparation that can damage living tissue in the event of contact.

**Waste code (EWC)** 20 01 14\* acids.

**Additional waste information** The waste code (EWC) is a recommendation. In the event of non-compliant handling, the end user is personally responsible for a suitable EWC code.

## SECTION 14. TRANSPORT INFORMATION

### 14.1 UN number

1805

### 14.2 UN proper shipping name

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**Name** PHOSPHORIC ACID SOLUTION

**IMDG proper shipping name** PHOSPHORIC ACID SOLUTION

### 14.3 Transport hazard class(es)

**Label** 8

**ADR / RID Class** 8

**ADR / RID Classification code** C1

**ADR / RID hazard identification number** 80

**IMDG Class** 8

**IMDG Marine Pollutant** No

**IMDG EmS** F-A S-B

**IATA Class** 8

### 14.4 Packing group

III

### 14.5 Environmental hazards

Not applicable

### 14.6 Special precautions for user

Tunnel restriction code: E

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

Not applicable

## SECTION 15. REGULATORY INFORMATION

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

**EU regulations** Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).  
European Parliament and Council Regulation (EC) No. 1272/2008, CLP.  
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.  
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.

**National regulations** EH40/2005 Workplace exposure limits  
Waste ordinance (2011:927).  
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).

### 15.2 Chemical safety assessment

Not applicable



## SECTION 16. OTHER INFORMATION

**Changes to previous revision** Changes are made in the following sections: 2, 3, 13, 15, 16.

**References to key literature and data sources** Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council. .  
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.  
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.  
EH40/2005 Workplace exposure limits  
Waste ordinance (2011:927).  
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).  
[www.prevent.se](http://www.prevent.se)  
C&L Inventory database  
Information also obtained from the constituent substances' safety data sheets.

**Phrase meaning** Skin Corr. 1B - Skin corrosion, hazard category 1B  
H314 - Causes severe skin burns and eye damage.