

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME BETO
APPLICATION AREA Rust remover
Pickling agent (metal)

Vendor art. number

1302

NATIONAL MANUFACTURER/IMPORTER

Enterprise Trion Tensid AB
Address Svederusgatan 1-3
Postal code SE-754 50 Uppsala
Country Sweden
E-mail info@trion.se
Internet www.trion.se
Telephone +46 18 156190
Fax +46 18 696627

CONTACT PERSONS

Name	E-mail	Telephone	Country
William Stomilovic	william.stomilovic@trion.se		

Emergency Phone	Type of assistance	Opening Hours
+46 70 60 462 94	William Stomilovic	

2. HAZARDS IDENTIFICATION

GENERAL

Risk of serious damage to eyes.

HEALTH

Corrosive

FIRE AND EXPLOSION

The product is not flammable.

ENVIRONMENT

Biodegradable. Contains component/components that are harmful to aquatic organisms.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
phosphoric acid ... %		231-633-2	7664-38-2	10 - 30 %	C,R34

Explanation of symbols: T+ =highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

GENERAL

Immediately rinse the skin and eyes with an abundant supply of water. Seek medical attention for all burns, regardless how minor they may seem.

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

INHALATION

Fresh air and rest.

SKIN CONTACT

Immediately rinse with abundant water and, if necessary, also on the inside of the clothes. Get medical attention if any discomfort continues.

EYE CONTACT

Rinse immediately with plenty of water. Keep the eyes wide open. Get medical attention immediately. Continue to rinse.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguishing agent: carbon dioxide or powder.

IMPROPER EXTINGUISHING MEDIA

Do not use a direct water jet.

EXTINGUISHING METHODS

Water should only be used by fireman.

FIRE AND EXPLOSION HAZARDS

Non-flammable.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Firemen must wear closed-circuit breathing equipment and full protective suits.

OTHER INFORMATION

Containers close to fire should be removed or cooled with water.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid direct contact. Wear necessary protective equipment.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Prevent dispersion through damming with sand, earth or other suitable material. Prevents major discharge into sewage systems, groundwater and surface water.

METHODS FOR CLEANING UP

Cover or absorb spilt liquid using sand, earth or other suitable material. Flush with plenty of water to clean spillage area.

OTHER INFORMATION

Only major emissions may represent a risk.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

The product is corrosive. Avoid contact with oxidising substances and strong bases.

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

HANDLING ADVICE

Wear appropriate clothing to prevent reasonably probable skin contact. Plastic packing material.

STORAGE

Plastic packing material. Keep container tightly closed. Keep locked up and out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL

Workplace and work methods are designed to prevent direct contact. Use suitable protective gloves, protective goggles and protective clothes if there is risk of direct contact or splashing.

RESPIRATORY PROTECTION

Respirator only if aerosol or mist may be formed. Respirator with B filter (grey).

EYE PROTECTION

Use tight-fitting protective goggles.

HAND PROTECTION

Use protective gloves that are resistant to chemicals. Protective gloves (butyl rubber, natural rubber, nitrile rubber).

PROTECTIVE CLOTHING

Wear suitable protective clothing and eye/face protection.

OTHER INFORMATION

Promptly remove non-impervious clothing that becomes wet or contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Low viscous liquid.
COLOUR	Colourless.
ODOUR	Sour.
SOLUBILITY	Miscible with water. Alcohol.
WATER SOLUBILITY	100%

Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
pH concentrate	~ 1.00		
pH in solution	~ 1.00		
Density	1260.00 kg/m ³		

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

Reacts violently with alkali.

MATERIALS TO AVOID

The product reacts with calcareous materials and dissolves them. Reacts violently with alkali.

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

11. TOXICOLOGICAL INFORMATION

ACUTE TOXIC TEST RESULTS

phosphoric acid ... %				
Route of exposure	Exposure time	Value/unit	Species	Source
LD50(Oral)		1530.00 mg/kg	rat	

GENERAL

Corrosive to strongly corrosive. This chemical may cause skin/eye irritation and burns (corrosive).

INHALATION

Vapours may have a strong irritant effect.

SKIN CONTACT

Corrosive to strongly corrosive.

EYE CONTACT

Permanent visual damage or blindness.

INGESTION

Harmful: possible risk of irreversible effects if swallowed.

12. ECOLOGICAL INFORMATION

AQUATIC ECOTOXICITY

phosphoric acid ... %				
Test	Exposure time	Value/unit	Species	Source
LC50(Acute fish)	96h	138.00 mg/l	Gambusia affinis	

Point source pollution of large quantities to the aquatic environment may harm aquatic organisms.

ECOTOXICITY

Acute toxic. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

DEGRADABILITY

Biodegradable.

ACCUMULATION

Not bioaccumulating in water environments

OTHER EFFECTS

May change the pH of the water. Large quantities may be harmful to plants.

CONCLUSION

Discharge into air, earth and water should be restricted.

OTHER INFORMATION

Prevent discharges into the sewage system, watercourses or lakes.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Local and EU regulations for refuse treatment must be followed. Do not use metal containers. Containers with rests of content is hazardous waste. Packaging may be cleaned and recycled.

CATEGORY OF WASTE

Suitable classification of waste is the responsibility of the user.

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: Yes

UN No.: 1805

TRADE NAME AND DESCRIPTION

PHOSPHORIC ACID, LIQUID

ADR/RID

Class:	8	Packing group:	III
Danger form:	8		
Hazard ID:	80		

corrosive or slightly corrosive substance

IMDG

Class:	8	Packing group:	III
Sub Risk:		EMS:	F-A, S-B
Marine Pollutant:	No		

IATA

Class:	8	Packing group:	III
Sub Risk:			
Label:	8		

OTHER INFORMATION

Tunnel Code E

15. REGULATORY INFORMATION



Corrosive

EC-Label: No

COMPOSITION

phosphoric acid ... % (10 - 30 %)

R-PHRASES

R34 Causes burns.

S-PHRASES

S2 Keep out of the reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

VENDOR NOTES

Assessed on the basis of available data.

SAFETY DATA SHEET

BETO

Last changed: 04/12/2009

LIST OF RELEVANT R-PHRASES

R34 Causes burns.

REVISION HISTORY

Version	Rev. date	Responsible	Changes
1.0.1	04/12/2009	WS	New database