

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 12.09.2007

Revision: 07.08.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** **BEIZER 640**
- **Application of the substance / the preparation** Lime- and rust solvent
- **Manufacturer/Supplier:**
Schweitzer-Chemie GmbH
Robert-Bosch-Str. 1
D-71691 Freiberg/N.
Tel. (+49)(0)7141/68881-0
Fax (+49)(0)7141/68881-66
E-Mail: info@schweitzer-chemie.de
- **Further information obtainable from:** Department laboratory
- **Information in case of emergency:**
Poison Emergency Call Berlin
(+49)30-19240

2 Hazards identification

- **Hazard description:**



C Corrosive

- **Information concerning to particular hazards to man and environment**
R 34 Causes burns.
- **Classification system**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7664-38-2	orthophosphoric acid	C; R 34	50-80%
EINECS: 231-633-2			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.

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- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store dry.
Use acid-resistant receptacle and equipment.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

34590-94-8 (2-methoxymethylethoxy)propanol

WEL Long-term value: 308 mg/m³, 50 ppm

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves (EN 374)

- **Material of gloves**
Natural rubber, NR
Neoprene gloves
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
Value for the permeation: Level \geq 6

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· **Eye protection:**



Safety glasses

Tightly sealed goggles.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form: Fluid
Colour: greenish
Odour: Characteristic

· **Change in condition**

Melting point/Melting range: undetermined
Boiling point/Boiling range: 100°C

- **Flash point:** Not applicable
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure at 20°C:** 23 hPa
- **Density at 20°C:** ca. 1.37 g/cm³ (DIN 51757)
- **Solubility in / Miscibility with Water:** Fully miscible
- **pH-value (100 g/l) at 20°C:** ca. 1.1 (DIN 19268)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions**
Reacts with alkali (lyes)
Reacts with base metals forming hydrogen
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

7664-38-2 orthophosphoric acid

Oral	LD50	(85%) 1530 mg/kg (rat)
Dermal	LD50	(85%) 2730 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.

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- **Additional toxicological information:**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
The product was not tested. The statements is derived from the characteristics of the single components.

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other Information:** No data available
- **Ecotoxic effects:**

· **Aquatic toxicity:**

7664-38-2 orthophosphoric acid

LC0 (85%) 100-1000 mg/l (gol)

- **Remark:** Harmful to aquatic organisms, as a result of pH-value shift.
- **Additional ecological information:**
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 76/464 EC:**
phosphoric compounds, inorganic
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**
- **Recommendation** Must be specially treated adhering to official regulations.
- **Waste disposal key:**
The allocation of the waste disposal key number is to be executed after the European refuse catalog industry and process specifically.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 8 (C1) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1805
- **Packaging group:** III
- **Hazard label:** 8
- **Description of goods:** 1805 PHOSPHORIC ACID, SOLUTION, mixture
- **Limited quantities (LQ)** LQ7
- **Transport category:** 3
- **Tunnel restriction code** E

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- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **UN Number:** 1805
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Proper shipping name:** PHOSPHORIC ACID, LIQUID, mixture
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1805
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** PHOSPHORIC ACID, LIQUID, mixture

15 Regulations

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:**



C Corrosive

- **Hazard-determining components of labelling:**
orthophosphoric acid
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
NK	< 2,5

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
34 Causes burns.
- **Department issuing MSDS:** Department laboratory
- * **Data compared to the previous version altered.**