

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.03.2007

Reviewed on 19.03.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** **BEIZER 630**
- **Application of the substance / the preparation** lime solvent
- **Manufacturer/Supplier:**
Schweitzer-Chemie GmbH
Robert-Bosch-Str. 1
D-71691 Freiberg/N. Telephone (+49)7141/68881-0
Fax (+49)7141/68881-66
- **Further information obtainable from:** Department laboratory
- **Information in case of emergency:**
Poison Emergency Call Berlin
(+49)30-19240

2 Composition/Data on components:

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

- **Dangerous components:**

CAS: 64-18-6	formic acid	C; R 35	50-80%
EINECS: 200-579-1			

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

3 Hazard 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.

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Take affected persons into fresh air and keep quiet.
- **After skin contact** Immediately rinse with water.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.

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:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
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:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **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.
Store in a cool place.

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:**

64-18-6 formic acid

WEL Long-term value: 9.6 mg/m³, 5 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**
Neoprene gloves
Nitrile rubber, NBR
Natural rubber, NR

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· **Penetration time of glove material**

The exact break through 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.

· **Eye protection:**



Tightly sealed goggles.

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

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Pink
Odour:	Pungent

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

· **Flash point:** > 65°C

· **Ignition temperature:** 500°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: 14.9 Vol %

Upper: 47.6 Vol %

· **Vapour pressure at 20°C:** 28 hPa

· **Density at 20°C:** ca. 1.15 g/cm³ (DIN 51757)

· **Solubility in / Miscibility with**

Water: Fully miscible

· **pH-value (100 g/l) at 20°C:** ca. 1.7 (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 amines

Reacts with oxidizing agents

· **Dangerous decomposition products:** Carbon monoxide

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11 Toxicological information

- **Acute toxicity:**

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

64-18-6 formic acid

Oral	LD50	> 1210 mg/kg (rat)
Inhalative	LC50/4 h	7.4 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **Sensitization:** No sensitizing effects known.

- **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.

12 Ecological information:

- **Information about elimination (persistence and degradability):**

- **Other Information:** No data available

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

64-18-6 formic acid

EC50/48h	34.2 mg/l (Daphnia magna)
EC50/72h	26.9 mg/l (alga)
LC50/96 h	< 100 mg/l (gol)

- **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**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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:** 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 (C3) Corrosive substances.

- **Danger code (Kemler):** 80

- **UN-Number:** 3412

- **Packaging group:** II

- **Hazard label** 8

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- **Description of goods:** 1779 FORMIC ACID, mixture
- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **UN Number:** 3412
- **Label** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Proper shipping name:** FORMIC ACID, mixture
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3412
- **Label** 8
- **Packaging group:** II
- **Proper shipping name:** FORMIC ACID, 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:**
formic acid
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
20 When using do not eat or drink.
23 Do not breathe fumes.
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	50-80

- **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.

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

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