

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.05.2006

Reviewed on 09.05.2006

1 Identification of substance:

- **Product details:**
- **Trade name:** **ST-DOS N-720**
- **Application of the substance / the preparation** neutralizing agent
- **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:**
- **CAS No. Description:**
sodium hydroxide
- **Identification number(s):** -
- **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 35 Causes severe burns.

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.
Seek medical treatment.
- **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** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire extinguishing methods suitable to surrounding conditions.

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.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.05.2006

Reviewed on 09.05.2006

Trade name: ST-DOS N-720

(Contd. of page 1)

Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Do not use light alloy receptacles.
- **Information about storage in one common storage facility:** Not required.
- **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:** Not required.
- **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 ≥ 6
- **Eye protection:**



Tightly sealed goggles.

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

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.05.2006

Reviewed on 09.05.2006

Trade name: ST-DOS N-720

(Contd. of page 2)

- **Change in condition**
 - Melting point/Melting range:** ca. 7°C
 - Boiling point/Boiling range:** ca. 135°C
- **Flash point:** Not applicable
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure at 20°C:** 5 mbar
- **Density at 20°C:** 1.48 g/cm³ (DIN 51757)
- **Solubility in / Miscibility with Water:** Fully miscible
- **pH-value (- g/l) at 20°C:** >14 (DIN 19268)
- **Viscosity:**
 - dynamic at 25°C:** 38 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions**
Reacts with acids
Reacts with light metals
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

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

Oral	LD50	500 mg/kg (rabbit)
------	------	--------------------
- **Primary irritant effect:**
- **on the skin:** Strong 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:** Inorganic mixture, therefore not biodegradable.
- **Ecotoxicological effects:**
- **Remark:** Harmful to aquatic organisms, as a result of pH-value shift.
- **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.

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.05.2006

Reviewed on 09.05.2006

Trade name: ST-DOS N-720

(Contd. of page 3)

- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be reused.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 8 (C5) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1824
- **Packaging group:** II
- **Hazard label:** 8
- **Description of goods:** 1824 SODIUM HYDROXIDE SOLUTION
- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **UN Number:** 1824
- **Label:** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Proper shipping name:** SODIUM HYDROXIDE SOLUTION
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1824
- **Label:** 8
- **Packaging group:** II
- **Proper shipping name:** SODIUM HYDROXIDE SOLUTION

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:**
sodium hydroxide
- **Risk phrases:**
35 Causes severe burns.
- **Safety phrases:**
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.05.2006

Reviewed on 09.05.2006

Trade name: ST-DOS N-720

(Contd. of page 4)

- **National regulations**
- **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.

- **Department issuing MSDS:** Department laboratory
- * **Data compared to the previous version altered.**

GB