



SODIUM HYDROXIDE 48%

R-9422.G

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

Trade name : SODIUM HYDROXIDE 48%
Chemical formula : NaOH
Use : Industrial.
Company identification : Makhteshim Chemical Works Ltd.
PO Box 60
Beer Sheva 84100 Israel.
Fax : +972-8-6296848
Emergency phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Sodium hydroxide	48 %	1310-73-2	215-185-5	011-002-00-6	C; R35

3. HAZARDS IDENTIFICATION

Main hazards : Corrosive
Human health hazards : Highly corrosive to eyes. .
Causes severe burns

4. FIRST AID MEASURES

Effects and symptoms

Inhalation : Inhalation may cause lung irritation and lung oedema.

Ingestion : Burning sensation of mouth , throat , and stomach , diarrhea , vomiting , fainting .

Skin contact : Causes severe burns . Repeated exposure may cause contact dermatitis. .

Eye contact : Redness, pain , blurred vision , severe deep burns .

First aid

Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately get medical attention.

Ingestion : Wash out mouth with plenty of water. Do not induce vomiting. Make victim drink plenty of water . Immediately get medical attention.

Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Seek medical advice.

Eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing media : In case of fire, use dry chemical , carbon dioxide . Cool exposed containers with water spray.

Special exposure hazards : Not flammable
Not combustible

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use appropriate protection (see section 8).
After spillage and/or leakage : Wash away with plenty of water. Neutralize with vinegar or other dilute acid, up to pH=7 and put into drain.

7. HANDLING AND STORAGE

- Handling** : Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Storage : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Keep container dry. Store in dry, cool area.
Precautions in handling and storage : Do not breathe fumes.
Avoid contact with skin and eyes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Either local exhaust or general room ventilation is usually required.
- Respiratory protection : During handling wear suitable respiratory equipment.
- Skin protection : Wear suitable protective clothing
- Hand protection : Wear suitable gloves.
- Eye protection : Chemical goggles or safety glasses.
TLV-TWA [mg/m3] : (USA) Sodium hydroxide STEL/Ceiling : 2 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
Colour : Colourless - Whitish
Odour : Odourless
Specific gravity : 1.5 (48% solution)
Molecular weight : 40 (Sodium hydroxide)
Freezing point [°C] : 12 (48% solution)
Flash point [°C] : Not flammable
Boiling point [°C] : 138 (48% solution)

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable at normal temperatures
Hazardous decomposition products : Not known
Hazardous reactions : Reacts with : reacts violently with strong acids .
Materials to avoid : Alkali (Al, Zn, Mg) concentrated Acid (HCl, HNO₃), Br₂
Conditions to avoid : Excessive heat .

11. TOXICOLOGICAL INFORMATION

- Ingestion** : Sodium hydroxide will immediately cause corrosion of and damage to the gastrointestinal tract.
Rabbit LDLo [mg/kg] : 500



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11. TOXICOLOGICAL INFORMATION (continued)

Dermal irritation (rabbit) : Sodium hydroxide : Corrosive
Eyes irritation (rabbit) : Sodium hydroxide : Severely irritating / Corrosive

12. ECOLOGICAL INFORMATION

Ecological effects information : Concentration greater than 10 ppm, especially in fresh water, or a pH value equal to or greater than 10.5 may be fatal to fish and other aquatic organisms.
Persistence and degradability : Degradation is primarily via: reacts with carbon dioxide in the air .
Bioaccumulative potential : Sodium hydroxide does not bioaccumulate in aquatic organisms

13. DISPOSAL CONSIDERATIONS

Disposal : Neutralize with vinegar or other dilute acid, up to pH=7 and put into drain.

14. TRANSPORT INFORMATION

- **UN No.** : 1824
- **Proper shipping name** : SODIUM HYDROXIDE SOLUTION (48%)
- **Packing group** : II
- **Class** : 8
- **H.I. nr** : 80
- **IMDG-Marine pollution** : No

15. REGULATORY INFORMATION

EU Classification : EU Classification (67/548/EEC-88/379/EEC)

Symbol(s)



R Phrase(s) : C : Corrosive
: R35 - Causes severe burns.
S Phrase(s) : S01/02 - Keep locked up and out of reach of children.
: S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
: S37/39 - Wear suitable gloves and eye/face protection.
: S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Contains : Sodium hydroxide 48%

16. OTHER INFORMATION

Recommended uses and restrictions : None.
Text of R-phrases in heading 2 : R35 - Causes severe burns.
Print date : 18 / 2 / 2008

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16. OTHER INFORMATION (continued)

any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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