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

Printing date 02.07.2007 Revision: 01.06.2007

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name: CAUSTIC SODA LIQUOR (15%-50%)**

· **Article number:** CO9a
· **Application of the substance / the preparation**
A strong alkali widely used in indsutries such as the manufacture of chemicals, pulp and paper, textiles, drinking water and detergents.

· **Manufacturer/Supplier:**
PLATER CHEMICALS Ltd
Alrewas House, Main Street
Alrewas
Burton on Trent
DE13 7ED
Staffordshire
UK
Tel: (0044) 1283 792600
Fax: (0044) 1283 792041
e-mail: sales@platerchemicals.co.uk

· **Further information obtainable from:** Product safety department.
· **Information in case of emergency:** Tel: (0044) 1283 792600

2 Hazards identification

· **Hazard description:**



C Corrosive

· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 35 Causes severe 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:**
· **CAS No. Description**
1310-73-2 Sodium hydroxide
· **Identification number(s)**
· **EINECS Number:** 215-185-5
· **EU Number:** 011-002-00-6

· **Chemical characterization**
· **Description:** An aqueous solution of sodium hydroxide.

· **Dangerous components:**

CAS: 1310-73-2 EINECS: 215-185-5	Sodium hydroxide	C; R 35	15-50%

· **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.

(Contd. on page 2)

Safety Data Sheet
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Printing date 02.07.2007 Revision: 01.06.2007

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(Contd. of page 1)

· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **Information for doctor:** Treat symptomatically and supportively.

5 Fire-fighting measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· **Person-related safety precautions:**
Particular danger of slipping on leaked/spilled product.
Wear protective equipment. Keep unprotected persons away.
· **Measures for environmental protection:**
Do not allow to penetrate the ground/soil.
Keep contaminated washing water and dispose of appropriately.
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, sawdust).
Use neutralizing agent.
Send for recovery or disposal in suitable receptacles.
Ensure adequate ventilation.

7 Handling and storage

· **Handling:**
· **Information for safe handling:**
Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:** The product is not flammable.

· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
· **Information about storage in one common storage facility:**
Store away from metals.
Do not store with organic halogens.
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 3)

Safety Data Sheet
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(Contd. of page 2)

8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**	
1310-73-2 Sodium hydroxide	
WEL	Short-term value: 2 mg/m³

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

· **Personal protective equipment:**
Select PPE appropriate for the operations taking place taking into account the product properties.
· **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **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.
· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Alkaline resistant protective clothing

9 Physical and chemical properties

· **General Information**	
Form:	Fluid
Colour:	White
Odour:	Odourless
· **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:**	23.0 hPa
· **Density at 20°C:**	1.25-1.55 g/cm³

(Contd. on page 4)

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

Printing date 02.07.2007 Revision: 01.06.2007

Trade name: CAUSTIC SODA LIQUOR (15%-50%)

(Contd. of page 3)

· **Solubility in / Miscibility with water:**	Fully miscible.
· **pH-value at 20°C:**	Approx. 14

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
· **Materials to be avoided:** Metals and acids.
· **Dangerous reactions** No dangerous reactions known.
· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**		
1310-73-2 Sodium hydroxide		
Oral	LD50	2000 mg/kg (rat)

· **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:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
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

· **Behaviour in environmental systems:**
· **Mobility and bioaccumulation potential:** Product is not expected to bioaccumulate.
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
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**
Contact waste processors for recycling information.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
· **European waste catalogue**
Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

· **Uncleaned packaging:**
· **Recommendation:**
Container remains hazardous when empty. Continue to observe all precautions.

(Contd. on page 5)

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

Printing date 02.07.2007 Revision: 01.06.2007

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(Contd. of page 4)

Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 8 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
· **Marine pollutant:** No
· **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 Regulatory information

· **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.

(Contd. on page 6)

Safety Data Sheet
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(Contd. of page 5)

· **Safety phrases:**
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
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).

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**
35 Causes severe burns.

· **Department issuing MSDS:** Product safety department.