SAFETY DATA SHEET

according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-06-30

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Sodium Hydroxide
Article number: 12-9193, 16-0019

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified: Skin corrosion (Cat. 1A) H314; corrosive to metals (Cat. 1) H290

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Signal word: Danger
Hazard statement(s):
H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage

Precautionary statement(s):
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE and/or doctor/physician.

Complementary hazard information
No further information

2.3 Other hazards

No further information

3. Composition/information on ingredients

3.1 Substances

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	≤ 100%	Skin Corr. 1A, H314 Met Corr. 1, H290

For the full text of the H-Statements in this section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

If swallowed	Call a poison centre/doctor immediately; get person to the hospital as fast as possible; if person is conscious, rinse mouth with water; do NOT induce vomiting; oxygen might be necessary
If inhaled	Move to fresh air; give oxygen or artificial respiration if necessary; lie person down in recovery position, cover and keep warm; get medical attention immediately
In case of skin contact	Take off contaminated clothes and shoes; wash skin immediately with plenty of water; keep person warm and in a quiet place, get medical attention immediately
In case of eye contact	Rinse immediately with plenty of water (also under eyelids) for at least 15 min; in case of difficulties of opening eyes, administer analgesic eye wash; get medical attention immediately and/or get person to the hospital as fast as possible
General advice	Show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder: for large fire use fog or alcohol-resistant foam

Unsuitable extinguishing media: Water may be ineffective

5.2 Special hazards arising from the substance or mixture

Product reacts violently with water; release of hydrogen by reaction with metals; sodium oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting; wear chemical resistant overall

5.4 Further information

Product itself is not flammable

Advice for emergency responders: Evacuate personal to safe area; keep people away from and upwind of spillage/ leakage; ventilate area; wear suitable protective clothes

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation; keep away from incompatible materials; wear lab coat, proper gloves, safety goggles and shoes; wearing of respiratory protection recommended; wash contaminated clothes before re-using

6.2 Environmental precautions

Prevent further leakage/spillage if safe to do; product should not be released into the environment; do not flush into surface water of sanitary water system; if product contaminates rivers/lakes or drains, inform authorities

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into a suitable and closed container for disposal; avoid dust formation

6.4 Reference to other sections

For disposal: See section 13

7. Handling and storage

7.1 Precautions for safe handling

Do not breathe dust; avoid contact with skin and eyes; when diluting, always add product to the water (NEVER add water to the product); use equipment and materials which are compatible with the product; do not overheat

7.2 Conditions for safe storage, including any incompatibilities

Store in original container in a dry and well-ventilated place; the product is hygroscopic

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal protective equipment

Eye/face protection: Wear safety goggles

Skin protection: Wear proper gloves; gloves must be inspected prior to use

Body Protection: Wear lab coat or other impervious clothes

Respiratory protection: Use of dust respirator (filter type P2) recommended

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	white pellets
Odour	odourless
Odour threshold	no data available
pH	14 at 50 g/l at 20°C
Melting point/ freezing point	melting point: 323°C
Initial boiling point and boiling range	boiling point: 1388°C
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	2.13 g/cm^3 at 20°C
Water solubility	ca 1260 g/l at 20°C
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No further information

10. Stability and Reactivity

10.1 Reactivity

Potential for exothermic hazard; may be corrosive

10.2 Chemical stability

Stable under recommended storage conditions

(Continued on page 4)

10.3 Possibility of hazardous reactions

Release of hydrogen by reaction with metals; exothermic reactions with strong acids; risk of violent reaction with water

10.4 Conditions to avoid

Keep away from direct sun light; do not overheat; exposure to moisture; freezing

10.5 Incompatible materials

Metals, oxidizing agents; acids, aluminium; other light metals and their alloys; organic materials

10.6 Hazardous decomposition products

In case of reaction with metals: Hydrogen

In case of fire: Sodium oxides

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

No data available

Skin corrosion/irritation

Skin: rabbit- causes severe burns – 24h

Serious eye damage/ eye irritation

Eye: rabbit – corrosive – 24h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

12. Ecological information

12.1 Toxicity

Toxicity to fish: LC50 – Gambusia affinis (Mosquito fish) – 125 mg/l – 96h

LC50 – Oncorhynchus mykiss (Rainbow trout) – 45.4 mg/l – 96h

Toxicity to daphnia and other aquatic invertebrates: Immobilization EC 50 – Daphnia – 40.38 mg/ l – 96h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Harmful to aquatic life

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: Dispose of as unused product.

14. Transport information

14.1 UN-number

ADR-RID: 1823 IMDG: 1823 IATA: 1823

14.2 UN proper shipping name

ADR-RID:	SODIUM HYDROXIDE, SOLID
IMDG:	SODIUM HYDROXIDE, SOLID
IATA:	Sodium Hydroxide, Solid

14.3 Transport hazard class(es)

ADR-RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR-RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR-RID:	no
IMDG, water pollutant:	no
IATA:	no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.
Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use

Text of H-phrase(s) in section 3

Hazard statement(s):

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damages

Met Corr.	Corrosive to metals
Skin Corr.	Skin corrosion

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