

**Safety Data Sheet**  
**HDL-202 - P43070-NA**

Safety Data Sheet dated 9/14/2018, version 2

**1. IDENTIFICATION**

Product identifier

Mixture identification:

Trade name: HDL-202

Other means of identification:

SDS code: P43070-NA

Recommended use of the chemical and restrictions on use

Recommended use:

Cleaner

Industrial uses

Professional uses

Restrictions on use:

No uses advised against are identified.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Dysol Inc. - 791 Westport Parkway - Fort Worth, TX 76177 / Phone: 1-817-335-1826 /  
csr-na@socomore.com/ Fax Number: 817-335-2405Distributor: SOCOMORE S.A.S. - Zone Industrielle du Prat - CS 23707 - 56037 VANNES  
CEDEX - France - Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 20 26Distributor: Socomore Ltd - 5, Coe Avenue - Loughborough - Leicestershire - LE11 4SE - UK  
- Tel: +44 1509 262040 - Fax: +44 1509 262046Distributor: Socomore Iberia - Calle Diputacio, 260 - 08007 Barcelona - Espana - Tel: +34 917  
693 962 - Fax: +34 902 908 966Distributor: MagChem Inc. 1271, rue Ampere, suite 101, Boucherville, QC, J4B 5Z5 Canada -  
Tel: 1-450 641 8500 - Fax: 1-450 655 1717Distributor: Socomore GmbH - c/o MAZARS GmbH - Theodor-Stern-Kai 1 - 60596 Frankfurt  
am Main - Deutschland - Tel: +49 (0)89 20 70 28 83 - Fax: +49 (0) 89 88 91 98 16Distributor: Socomore Trading Shanghai - 355 East Kang Qiao Road - Kang Qiao Industrial  
Zone - Pudong - 201315 Shanghai - Tel: 862158131133 - Fax: 862158131933Dystrybutor : SOCOMORE SPzoo - Ul. Piekna 18, 00-549 Warszawa Polska - Tel : +48 608  
454 114 - Fax : +48 (22) 621 61 09

Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

Emergency phone number

CHEMTEL: 1-800-255-3924 (USA) / CANUTEC: 1-613-996-6666 (CANADA)

**2. HAZARD(S) IDENTIFICATION**

Classification of the chemical



Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.



Danger, Eye Dam. 1, Causes serious eye damage.

Label elements

Hazard pictograms:



Danger

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**Hazard statements:**

H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**Precautionary statements:**

P260 Do not breathe dust or mist.  
P264 Wash ... Thoroughly after handling.  
P280 Wear face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:**

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 40% - < 50% SODIUM HYDROXIDE; CAUSTIC SODA

REACH No.: 01-2119457892-27, Index number: 011-002-00-6, CAS: 1310-73-2, EC: 215-185-5



A.2/1A Skin Corr. 1A H314

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### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
Remove contaminated clothing immediately and dispose off safely.  
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Intense burns and penetrating ulcers in the skin.  
Burning sensation.  
May cause ulceration of the conjunctivae and cornea.  
Burns of the mouth.

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Abdominal pain.

Vomiting

Complications that may be observed in the following days: oesophageal perforations, shock, respiratory distress.

Risk of respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Flush with plenty of water any skin that you think may have come into contact with the product and consult a doctor.

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#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: Not Relevant

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

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#### 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

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Keep away from food, drink and feed.  
 Incompatible materials:  
 None in particular.  
 Instructions as regards storage premises:  
 Adequately ventilated premises.  
 Storage temperature:  
 Store at ambient temperature.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control parameters

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2  
 - OEL Type: ACGIH - STEL: Ceiling 2 mg/m<sup>3</sup> - Notes: URT, eye, and skin irr  
 - OEL Type: National - TWA(8h): 2 mg/m<sup>3</sup> - Notes: France. INRS ED 984, indicative limit  
 - OEL Type: TWA - TWA: 2 mg/m<sup>3</sup>

##### DNEL Exposure Limit Values

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2  
 Worker Industry: 1 mg/m<sup>3</sup> - Consumer: 1 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
 Frequency: Long Term (repeated)

##### PNEC Exposure Limit Values

N.A.

##### Appropriate engineering controls:

None

##### Individual protection measures

##### Eye protection:

Safety goggles (EN 166)  
 Use close fitting safety goggles, don't use eye lens.

##### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
 Chemical protection clothing. (type 3 - EN14605)  
 Chemical protection clothing. (type 6 - EN13034)  
 Boots.

##### Protection for hands:

Suitable gloves type: NF EN374  
 NR (natural rubber, natural latex).  
 PVC (polyvinyl chloride).

##### Respiratory protection:

Use adequate protective respiratory equipment.

##### Thermal Hazards:

None

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Appearance and colour:	Clear colourless to yellow liquid	--	--
Odour:	N.A.	--	--
Odour threshold:	Not Relevant	--	--
pH:	13	ISO 4316, ASTM E70	--
Melting point / freezing point:	Not Relevant	--	--

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Initial boiling point and boiling range:	>100 °C/284°F	base aqueuse	--
Flash Point (°F):	N.A.	--	--
Flash point (°C):	N.A.	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	13	--	--
Vapour density:	N.A.	--	--
Relative density:	1.52@20°C/68°F	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not Relevant	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

## 10. STABILITY AND REACTIVITY

#### Reactivity

Hazards associated with exothermic reactions.

#### Chemical stability

Stable under normal conditions

#### Possibility of hazardous reactions

Strong exothermic reaction with acids.

Reactions with metals, with evolution of hydrogen.

Reacts violently with water.

#### Conditions to avoid

Stable under normal conditions.

#### Incompatible materials

Acids.

Metals.

Aluminium, zinc.

Organic peroxides.

#### Hazardous decomposition products

None.

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Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 1350 mg/kg

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 33 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish < 189 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria = 22 mg/l - Duration h: 0.25 - Notes:

Photobacterium phosphoreum

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

No harmful effects expected.

**13. DISPOSAL CONSIDERATIONS**

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

**14. TRANSPORT INFORMATION**

UN number

ADR-UN Number:

1824

DOT number:

UN1824

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IATA-UN Number:	1824
IMDG-UN Number:	1824
UN proper shipping name	
ADR-Shipping Name:	SODIUM HYDROXIDE SOLUTION
DOT-Shipping Name:	SODIUM HYDROXIDE SOLUTION
IATA-Shipping Name:	SODIUM HYDROXIDE SOLUTION
IMDG-Shipping Name:	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	
ADR-Class:	8
DOT Hazard Class:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8
Packing group	
ADR-Packing Group:	II
DOT Packing group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
	N.A.
Special precautions	
DOT Special provisions:	B2, IB2, N34, T7, TP2
DOT Labels:	8
ADR-Subsidiary risks:	-
ADR-S.P.:	-
ADR-Transport category (Tunnel restriction code):	(E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	855
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	"Separated from" acids.
Q.L.:	1L
Q.E.:	E2

## 15. REGULATORY INFORMATION

### USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

SODIUM HYDROXIDE; CAUSTIC SODA is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: no substances listed.

Section 304 - Hazardous substances: SODIUM HYDROXIDE; CAUSTIC SODA.

Section 313 - Toxic chemical list: no substances listed.

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CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
Substance(s) listed under CERCLA: SODIUM HYDROXIDE; CAUSTIC SODA -  
Reportable quantity: 1000 pounds.  
Reportable quantity for mixture: 2500 pounds.

CAA - Clean Air Act  
CAA listed substances:  
None.

CWA - Clean Water Act  
CWA listed substances:  
SODIUM HYDROXIDE; CAUSTIC SODA is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65  
Substance(s) listed under California Proposition 65:  
None.

Massachusetts Right to know  
Substance(s) listed under Massachusetts Right to know:  
SODIUM HYDROXIDE; CAUSTIC SODA.

New Jersey Right to know  
Substance(s) listed under New Jersey Right to know:  
SODIUM HYDROXIDE; CAUSTIC SODA.

Pennsylvania Right to know  
Substance(s) listed under Pennsylvania Right to know:  
SODIUM HYDROXIDE; CAUSTIC SODA.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

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## 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:  
H314 Causes severe skin burns and eye damage.

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Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

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ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average