

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

Honeywell
Fluka™

Sodium hydroxide

06203-5KG

Version 1.6

Revision Date 12.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Sodium hydroxide
SDS-number : 000000020688
Type of product : Substance
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.
Chemical name : Sodium hydroxide
Index-No. : 011-002-00-6
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals
Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :
For further information, please contact: : SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
: Poison Control Center:

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United Kingdom: (+44) 844 892 0111

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Corrosive to metals Category 1
H290 May be corrosive to metals.
Skin corrosion Category 1A
H314 Causes severe skin burns and eye damage.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements	:	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with plenty of water. 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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2.3. Other hazards

Extremely corrosive and destructive to tissue. Results of PBT and vPvB assessment, see chapter 12.5. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Sodium hydroxide	1310-73-2 011-002-00-6 215-185-5	Met. Corr. 1; H290 Skin Corr. 1A; H314	100 %	Skin Corr. 1A; H314:>= 5 % Skin Corr. 1B; H314:2 - < 5 % Eye Irrit. 2; H319:0,5 - < 2 % Skin Irrit. 2; H315:0,5 - < 2 %

3.2. Mixtures

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Take off all contaminated clothing immediately.

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Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.

Ingestion:

When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray

Foam

Carbon dioxide (CO₂)

Dry powder

Extinguishing media which shall not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

The product is not flammable.

Contact with metals liberates hydrogen gas.

Fire may cause evolution of:

Sodium oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In wet solutions watch out for etching influence. The product itself does not burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

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Use mechanical handling equipment.
Pick for disposal in tightly closed containers
Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Use only alkali-proof equipment. When diluting, always stir product into water.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from atmospheric moisture and water. Product is hygroscopic.

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Sodium hydroxide	EH40 WEL STEL	2 mg/m ³		
Sodium hydroxide	EH40 WEL			Listed

EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended

STEL - Short term exposure limit

EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended

DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Sodium hydroxide	Workers / Long-term local effects		1 mg/m ³	Inhalation	
Sodium hydroxide	Consumers / Long-term local effects		1 mg/m ³	Inhalation	

No PNEC data available.

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8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Do not breathe dust.

Engineering measures

Use with local exhaust ventilation.

Emergency sprinkling nozzle

Personal protective equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection:

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Safety goggles

Face-shield

Skin and body protection:

Complete suit protecting against chemicals

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Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | | |
|-------------------------------------|---|---|
| (a) Physical state | : | solid |
| (b) Colour | : | colourless |
| (c) Odour | : | odourless |
| (d) Melting point/freezing point | : | 319 °C |
| (e) Boiling point/boiling range | : | 1.390 °C
at 1.013 hPa |
| (f) Flammability | : | The product is not flammable. |
| (g) Lower and upper explosion limit | : | Lower explosion limit
Not applicable |
| | : | Upper explosion limit
Not applicable |
| (h) Flash point | : | Not applicable |
| (i) Auto-ignition temperature | : | Not applicable |
| (j) Decomposition temperature | : | No decomposition if used as directed. |
| (k) pH | : | alkaline |
| (l) Viscosity, kinematic | : | No data available |
| (m) Solubility(ies) | : | Water solubility:
completely soluble |

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Solubility in other solvents:

No data available

(n) Partition coefficient: n-octanol/water : No data available

(o) Vapour pressure : No data available

(p) Density and / or relative density : 2,13 g/cm³ at 20 °C

(q) Bulk density : No data available

(q) Relative vapour density : No data available

(r) Particle characteristics : No data available

9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Corrosive to metals : Corrosive to metals

Evaporation rate : No data available

Viscosity, dynamic : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

No decomposition if used as directed.

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10.3. Possibility of hazardous reactions

Possible incompatibility with alkali sensitive materials.
With acid and aluminium.
Reacts violently with water.
Corrosive in contact with metals

10.4. Conditions to avoid

Corrodes metals in the presence of water or moisture.
Protect from moisture.

10.5. Incompatible materials

Zinc
Aluminium
Tin
Gives off hydrogen by reaction with metals.
Exothermic reaction with water.
Exothermic reaction with strong acids.

10.6. Hazardous decomposition products

Sodium oxides

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

Acute oral toxicity:

Toxicity is determined by the corrosivity of the product.

Acute dermal toxicity:

Toxicity is determined by the corrosivity of the product.

Acute inhalation toxicity:

Toxicity is determined by the corrosivity of the product.

Acute toxicity (other routes of administration):

No data available

(b) Skin corrosion/irritation:

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Classification based on Annex VI of regulation 1272/2008/EC.

(c) Serious eye damage/eye irritation:

Classification based on Annex VI of regulation 1272/2008/EC.

(d) Respiratory or skin sensitisation:

Species: human

Classification: non-sensitizing

(e) Germ cell mutagenicity:

Note: No data available

(f) Carcinogenicity:

Species: not specified

Note: No data available

(g) Reproductive toxicity:

Species: not specified

Remarks: No data available

(h) STOT-single exposure:

Remarks: No data available

(i) STOT - repeated exposure:

Note: No data available

STOT - repeated exposure:

Remarks: No data available

(j) Aspiration hazard:

No data available

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information:

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

No data available

Toxicity to aquatic plants:

No data available

Toxicity to aquatic invertebrates:

EC50

Immobilization

Species: Ceriodaphnia spec

Value: 40,4 mg/l

Exposure time: 48 h

12.2. Persistence and degradability

Biodegradability:

The methods for determining the biological degradability are not applicable to inorganic substances.

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. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

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Should not be released into the environment.
If it is not neutralised, observe pH value.
Neutralisation will reduce ecotoxic effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number or ID 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

Marine pollutant: no

14.6 Special precautions for user

IMDG Code segregation group (SGG18) – ALKALIS,

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14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Basis	Value	Remarks
Directive 2012/18/EC		Not applicable
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).
Regulation (EC) No. 1907/2006, Annex XIV		Not listed

Other inventory information

US. Toxic Substances Control Act
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)
On the inventory, or in compliance with the inventory

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China. Inventory of Existing Chemical Substances (IECSC)

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)

On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Sodium hydroxide : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.
