

Sodium hydroxide solution

35256-1L

Version 1.1 Revision Date 08/24/2021 Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Sodium hydroxide solution

Number : 00000020410

Product Use Description : Laboratory chemicals

Manufacturer or supplier's

details

Honeywell International Inc. 1953 South Harvey Street

Muskegon, MI 49442

For more information call : 1-800-368-0050

+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or

+1-703-527-3887

:

: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance : Corrosive to metals, Category 1

or mixture

Skin corrosion, Category 1B Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

T.

Signal word : Danger

Hazard statements : May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statements : **Prevention**:

Keep only in original container. Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER/ doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Storage:

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : NaOH

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	96.00 %
Sodium hydroxide	1310-73-2	4.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous

area. Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air. Call a physician.

Skin contact : Wash off immediately with plenty of water. Immediate medical

treatment is necessary as untreated wounds from corrosion of

the skin heal slowly and with difficulty.

Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water,

also under the eyelids. Call a physician immediately.

Ingestion : When swallowed, allow water to be drunk. Do NOT induce

vomiting. Call a physician immediately.

Notes to physician

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and

special treatment needed, if

necessary

: No information available.

: Treat symptomatically.

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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Dry powder Foam

Carbon dioxide (CO2)

Specific hazards during

firefighting

: Material can create slippery conditions.

The product itself does not burn.

Special protective equipment

for firefighters

: No unprotected exposed skin areas.

Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,

protective equipment and emergency procedures

: Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away.

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Do not flush into surface water or sanitary sewer system.

Methods and materials for

containment and cleaning

Soak up with inert absorbent material.

Sweep up and shovel into suitable containers for disposal.

up Additional

Additional advice : Spilling onto the container's outside will make container slippery.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe : Wear personal protective equipment.

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handling Use only in well-ventilated areas.

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

Advice on protection against :

fire and explosion

The product itself does not burn.

Normal measures for preventive fire protection. Contact with metals liberates hydrogen gas.

Storage

Conditions for safe storage,

including any incompatibilities

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Protect from physical damage.

Advice on common storage : Do not store near acids.

Keep away from metals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Face-shield

Safety goggles

Hand protection : Impervious gloves

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

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Hygiene measures : Take off all contaminated clothing immediately.

Separate rooms are required for washing, showering and

changing clothes.

Keep working clothes separately.

Wash hands before breaks and at the end of workday.

Recommended preventive skin protection

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Sodium hydroxide	1310-73-2	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Sodium hydroxide	1310-73-2	PEL: Permissi ble exposure limit	2 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Color : colourless

Odor : odourless

Odor threshold : Note: No data available

pH : 13 - 14

Melting point/range : < 0 °C

Boiling point/boiling range : > 100 °C

Flash point : Note: Not applicable

Evaporation rate : Note: No data available

Flammability : Not applicable

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : Note: similar to water

Density : ca. 1.04 g/cm3 at 20 °C

Water solubility : Note: completely miscible

Partition coefficient:

n-octanol/water

: Note: No data available

Ignition temperature : Note: Not applicable

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Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

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

Molecular weight : 40 g/mol

Bulk density : Note: Not applicable

Corrosivity : Note: Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur. Exothermic reaction with strong acids.

Corrosive in contact with metals

Conditions to avoid : Protect from contamination.

Incompatible materials : Gives off hydrogen by reaction with metals.

Exothermic reaction with strong acids.

Hazardous decomposition

products

: No hazardous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

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Acute oral toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Acute inhalation toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Acute dermal toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Skin irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Eye irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Sensitisation : Species: Humans

Result: Does not cause skin sensitisation.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : Note: Not classified due to data which are conclusive although

insufficient for classification.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 40.4 mg/l

Exposure time: 48 h

Species: Ceriodaphnia (water flea) Test substance: anhydrous substance

Toxicity to algae : Note: Not classified due to data which are conclusive although

insufficient for classification.

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Further information on ecology

Additional ecological

information

: The methods for determining biodegradability are not

applicable to inorganic substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1824

Proper shipping name : SODIUM HYDROXIDE SOLUTION

Class 8
Packing group II
Hazard Labels 8

IATA UN/ID No. : UN 1824

Description of the goods : SODIUM HYDROXIDE SOLUTION

Class : 8
Packaging group : II
Hazard Labels : 8
Packing instruction (cargo : 855

aircraft)

Packing instruction : 851

(passenger aircraft)

Packing instruction : Y840

(passenger aircraft)

IMDG UN/ID No. : UN 1824

Description of the goods : UN 1824 : SODIUM HYDROXIDE SOLUTION

Class : 8
Packaging group : II
Hazard Labels : 8
EmS Number : F-A, S-B
Marine pollutant : no

IMDG Code segregation group 18 - ALKALIS,



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SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia. Industrial Chemical (Notification and

Assessment) Act

: 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

Chemical Substances

(IECSC)

China. Inventory of Existing : 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

National regulatory information

US. EPA CERCLA

Hazardous Substances (40

CFR 302)

: The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the

Reportable Quantity (RQ):

Reportable quantity: 1000 lbs

: Sodium hydroxide 1310-73-2

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SARA 302 Components : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Massachusetts RTK : Sodium hydroxide 1310-73-2

New Jersey RTK : Sodium hydroxide 1310-73-2

Pennsylvania RTK : Sodium hydroxide 1310-73-2

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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



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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 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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/22/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group