

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Sodium hydroxide concentrate

Number : 000000020999

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 or mixture : Corrosive to metals, Category 1
Skin irritation, Category 2
Eye irritation, Category 2A

GHS Label elements, including precautionary statements

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

Symbol(s)

:



Signal word

: Warning

Hazard statements

: May be corrosive to metals.
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

: **Prevention:**
Keep only in original container.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**

IF ON SKIN: Wash with plenty of soap and water.

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

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Absorb spillage to prevent material damage.

Storage:

Store in corrosive resistant container with a resistant inner liner.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: NaOH

Chemical nature

: Mixture

Sodium hydroxide concentrate

38227-1EA

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=99.00 %
Sodium hydroxide	1310-73-2	>=0.50 - <1.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Take off all contaminated clothing immediately.
- Inhalation : If inhaled, remove to fresh air. If symptoms persist, call a physician.
- Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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 : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Sodium hydroxide concentrate

38227-1EA

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

- Specific hazards during firefighting : The product is not flammable.
Fire may cause evolution of:
Sodium oxides
- Special protective equipment for firefighters : 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 : Wear personal protective equipment. Unprotected persons must be kept away.
Evacuate personnel to safe areas.
Provide adequate ventilation.
Avoid contact with skin and eyes.
- Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

- Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

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.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Wear suitable protective clothing.
Wear as appropriate:
Impervious clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Color : colourless
- Odor : odourless

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

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Odor threshold	: Note: No data available
pH	: Note: alkaline
Melting point/range	: Note: No data available
Boiling point/boiling range	: ca. 100 °C at 1,013 hPa
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: ca. 1.000 g/cm ³ at 20 °C
Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Decomposition temperature	: Note: No decomposition if used as directed.

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

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Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Molecular weight	: 40 g/mol
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	: Corrosive in contact with metals Hazardous polymerisation does not occur.
Conditions to avoid	: No information available.
Incompatible materials	: Aluminium Tin Zinc
Hazardous decomposition products	: Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Note: No data available
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available

Sodium hydroxide concentrate**38227-1EA**

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

Skin irritation : Result: Irritating to skin.

Eye irritation : Result: Irritating to eyes.

Sensitisation : Note: No data available

Repeated dose toxicity : Note: No data available

Genotoxicity in vitro : Note: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

Toxicity to bacteria : Note: No data available

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology

Additional ecological information : Do not flush into surface water or sanitary sewer system.

Sodium hydroxide concentrate

38227-1EA

Version 1.2

Revision Date 05/18/2022

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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	: III
Hazard Labels	: 8

IATA

UN/ID No.	: UN 1824
Description of the goods	: SODIUM HYDROXIDE SOLUTION
Class	: 8
Packaging group	: III
Hazard Labels	: 8
Packing instruction (cargo aircraft)	: 856
Packing instruction (passenger aircraft)	: 852
Packing instruction (passenger aircraft)	: Y841

IMDG

UN/ID No.	: UN 1824
Description of the goods	: SODIUM HYDROXIDE SOLUTION
Class	: 8
Packaging group	: III
Hazard Labels	: 8
EmS Number	: F-A, S-B
Marine pollutant	: no
IMDG Code segregation group (SGG18)	: ALKALIS,

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances : On TSCA Inventory

Sodium hydroxide concentrate

38227-1EA

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

Control Act

Australia. Industrial Chemicals Act (AICC), 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

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

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

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Sodium hydroxide concentrate

38227-1EA

Version 1.2

Revision Date 05/18/2022

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- 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.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

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 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.

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Sodium hydroxide concentrate

38227-1EA

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