

# SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium hydroxide solution

Number : 000000020653

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.  
115 Tabor Road  
Morris Plains, NJ 07950-2546

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 corrosion, Category 1A  
Serious eye damage, Category 1

### GHS Label elements, including precautionary statements

## SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

000000020653

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Symbol(s)

:



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.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula

: HNaO

# SAFETY DATA SHEET



**F71474 Sodium hydroxide sol 2.0M1,00LPF**

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=90.00 - <=100.00 %
Sodium hydroxide	1310-73-2	>=5.00 - <10.00 %

## SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Immediately take off contaminated clothing and rinse body with plenty of water.
- 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 : Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO2)  
Dry powder
- Specific hazards during firefighting : Contact with metals liberates hydrogen gas.  
Fire may cause evolution of:  
Sodium oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

# SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

000000020653

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment. Unprotected persons must be kept away.  
Evacuate personnel to safe areas.  
Provide adequate ventilation.  
Do not get in eyes, on skin, or on clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
Should not be released into the environment.

Methods for 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

Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Use only alkali-proof equipment.  
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

### Storage

Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

## 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

## SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

000000020653

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

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 : Safety goggles
- Hand protection : Latex gloves  
Gloves must be inspected prior to use.  
Replace when worn.
- Skin and body protection : Wear suitable protective 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**

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values

Sodium hydroxide	1310-73-2	Ceil_Time : Ceiling Limit Value and Time Period (if specified) :	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
------------------	-----------	---	---------	------	---

Sodium hydroxide	1310-73-2	PEL : Permissible exposure limit	2 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
------------------	-----------	-------------------------------------	---------	---------	--

## SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

000000020653

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
------------------	-----------	---	---------	------	---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: odourless
pH	: 14
Melting point/range	: -12 - -10 °C Note: no data available
Boiling point/boiling range	: 105 - 140 °C at 1,013 hPa
Flash point	: Note: Not applicable
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: < 24 hPa at 20 °C(68 °F)
Density	: ca. 1.08 g/cm3 at 20 °C
Water solubility	: Note: completely miscible
Ignition temperature	: Note: Not applicable

# SAFETY DATA SHEET



**F71474 Sodium hydroxide sol 2.0M1,00LPF**

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

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

Molecular weight : 40.0 g/mol

Corrosivity : Note: Corrosive to metals

## SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Corrosive in contact with metals

Conditions to avoid : No information available.

Incompatible materials to avoid : Aluminium  
Zinc  
Tin

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

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: human  
Result: non-sensitizing

# SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Test substance: anhydrous substance

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 : EC50: 40.4 mg/l  
Exposure time: 48 h  
Species: Ceriodaphnia spec  
Test substance: anhydrous substance

Toxicity to algae : Note: no data available

### Elimination information (persistence and degradability)

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

### Further information on ecology

## 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



## SAFETY DATA SHEET



F71474 Sodium hydroxide sol 2.0M1,00LPF

000000020653

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

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 aircraft)	: 855
Packing instruction (passenger aircraft)	: 851
Packing instruction (passenger aircraft)	: Y840

**IMDG**

UN/ID No.	: UN 1824
Description of the goods	: SODIUM HYDROXIDE SOLUTION
Class	: 8
Packaging group	: II
Hazard Labels	: 8
EmS Number	: F-A, S-B
Marine pollutant	: no

## 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. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET



**F71474 Sodium hydroxide sol 2.0M1,00LPF**

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : 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

**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

F71474 Sodium hydroxide sol 2.0M1,00LPF

**000000020653**

Version 1.0

Revision Date 10/06/2016

Print Date 12/20/2016

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 3	3
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group