SAFETY DATA SHEET



Issuing Date 17-Jan-2018 Revision date 18-May-2021 **Revision Number** 2.1

1. Identification

Product identifier

Product Name FM#-NaOH, 0.1N Sodium Hydroxide

Other means of identification

15010745 Product Code(s)

UN/ID no. UN1824

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use reagent

No information available Restrictions on use

Details of the supplier of the safety data sheet

Manufacturer Address

Illumina, Inc. 5200 Illumina Way

www.illumina.com

San Diego, CA 92122 USA

Company Phone Number

1-858-809-ILMN 1-858-202-4566

E-mail address

SDS@illumina.com

Emergency telephone number

24 Hour Emergency Phone Number 1-760-476-3962

2. Hazard(s) identification

GHS Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance colorless Physical state Liquid **Odor** Odorless

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Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Storage

Store in accordance with local regulations

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Unknown acute toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other Information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

4. First-aid measures

Description of first aid measures

General advice Use first aid treatment according to the nature of the injury.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

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5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

CAUTION: Use of water spray when fighting fire may be inefficient. Large Fire

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Use personal protective equipment as required. Dike far ahead of liquid spill for later Methods for cleaning up

disposal. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

See section 13 for more information. Reference to other sections

7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use personal Advice on safe handling

protection equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits**

exposure limits established by the region specific regulatory bodies.

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Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of

equipment, work area and clothing is recommended. Wash thoroughly after handling.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance colorless aqueous solution

Color colorless Odorless Odor

No information available **Odor threshold**

Remarks • Method Property Values

No data available None known Hq

None known Melting point / freezing No data available point

None known Initial boiling point and No data available

boiling range

None known Flash point No data available Tag Open Cup **Evaporation rate** No data available None known Flammability No data available

Flammability Limit in No data available

None known Upper flammability or No data available

explosive limits

Lower flammability or No data available

explosive limits

Vapor pressure No data available None known Relative vapor density No data available Relative density None known No data available Water solubility No data available

No data available Solubility(ies) No data available None known Partition coefficient No data available

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None known Autoignition No data available

None known Lemperature

Decomposition temperature

None known

Other information

Explosive properties

Oxidizing properties

Softening point

Molecular weight

VOC Content (%)

Liquid Density

No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions. Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. No known effect based on

information supplied. Not an expected route of exposure.

Eye contact Specific test data for the substance or mixture is not available. No known effect based on

information supplied. Not an expected route of exposure.

Skin contact Specific test data for the substance or mixture is not available. No known effect based on

information supplied.

Ingestion Specific test data for the substance or mixture is not available. No known effect based on

information supplied. Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Mobility No information available.

Other adverse effects No information available.

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers. Dispose of in accordance with federal, state and local

regulations.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

14. Transport information

DOT

UN/ID no.

Proper shipping name Sodium hydroxide solution (Sodium hydroxide)

Transport hazard class(es) R Packing Group Ш

Special Provisions IB3, N34, T4, TP1

Description UN1824, Sodium hydroxide solution (Sodium hydroxide), 8, III

TDG

UN/ID no. UN1824

SODIUM HYDROXIDE SOLUTION Proper shipping name

Transport hazard class(es) Ш **Packing Group**

Description UN1824, SODIUM HYDROXIDE SOLUTION, 8, III

MEX

UN/ID no. UN1824

Proper shipping name SODIUM HYDROXIDE SOLUTION (Sodium hydroxide)

Transport hazard class(es) **Packing Group**

MEX Technical Name Sodium hydroxide

Description UN1824, SODIUM HYDROXIDE SOLUTION (Sodium hydroxide), 8, III

Special Provisions 223

ICAO (air)

UN/ID no. UN1824

Proper shipping name Sodium hydroxide solution (Sodium hydroxide)

Transport hazard class(es) Packing Group Ш

Description UN1824, Sodium hydroxide solution (Sodium hydroxide), 8, III

Special Provisions A3

IATA

UN number or ID number UN1824

Sodium hydroxide solution (Sodium hydroxide) Proper shipping name

Transport hazard class(es)

Packing group Ш

Sodium hydroxide **IATA Technical Name**

UN1824, Sodium hydroxide solution (Sodium hydroxide), 8, III Description

Special Provisions A3, A803

IMDG

UN number or ID number UN1824

Proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) Ш Packing group

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F-A, S-B **EmS-No Special Provisions** 223

Description UN1824, SODIUM HYDROXIDE SOLUTION, 8, III

RID

UN/ID no. UN1824

Proper shipping name SODIUM HYDROXIDE SOLUTION (Sodium hydroxide)

Transport hazard class(es) **Packing Group** Ш Classification code C5

Description UN1824, SODIUM HYDROXIDE SOLUTION (Sodium hydroxide), 8, III

ADR

UN number or ID number UN1824

Proper shipping name SODIUM HYDROXIDE SOLUTION (Sodium hydroxide)

Transport hazard class(es) Packing group Ш Classification code C5 **Tunnel restriction code** (E)

Description UN1824, SODIUM HYDROXIDE SOLUTION (Sodium hydroxide), 8, III, (E)

ADN

UN/ID no. UN1824

Sodium hydroxide solution (Sodium hydroxide) Proper shipping name

Transport hazard class(es) 8 Packing Group Ш Classification code C5

Description UN1824, Sodium hydroxide solution (Sodium hydroxide), 8, III

Equipment Requirements PP, EP

15. Regulatory information

International Inventories

DSL/NDSL Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. AIIC Contact supplier for inventory compliance status. **TSCA**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Sodium hydroxide 1310-73-2	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards -**HMIS Health hazards** 0 Flammability 0 Physical hazards 0 Personal protection X Chronic Hazard Star Legend * = Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Ceiling Maximum limit value Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

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New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared By Illumina Inc. **Issuing Date** 17-Jan-2018 Revision date 18-May-2021

Revision Note No information available.

Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet

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