

Safety Data Sheet

Preparation Date 01-Apr-2015 Revision date 01-Dec-2015 Revision Number: 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: DECCO 239 Caustic Soda Buffer

Other means of identification

 Item#:
 24-239

 UN-No
 1824

 Synonyms
 Not Available

Recommended use of the chemical and restrictions on use
Recommended use

Alkalinity agent. Buffer.

Uses advised against Activities contrary to label recomendation

Details of the Supplier of the Safety Data Sheet

Manufacturer Address

DECCO

Decco U.S. Post Harvest, Inc. 1713 S. California Ave. Monrovia, CA 91016-0120 Emergency telephone number

Company Phone Number 626-358-1838

8:00 am - 5:00 pm (PST)

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

hazard statements

Causes severe skin burns and eye damage



appearance clear Colorless

Physical state liquid

Odor No information available

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Sodium hydroxide	1310-73-2	5-40	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Take off contaminated clothing. Wash off immediately with plenty of water for at least 15

minutes. Call poison control center or doctor for treatment advice.

Inhalation If breathing is irregular or stopped, administer artificial respiration. MAY CAUSE ALLERGIC

RESPIRATORY REACTION. Call a poison control center or doctor for further treatment

advice.

Ingestion Call a physician or poison control center immediately. Clean mouth with water. Never give

anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

Hives.

Effects

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician No information available.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products No information available.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsAvoid contact with the skin and the eyes. Use personal protective equipment.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinenet environmental permits. Do not flush into surface

water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before

re-use. Keep out of reach of children. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Empty containers may contain hazardous residues.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

incompatible materials May react violently with strong acids and oxidizers. Avoid contact with zinc, aluminum, tin,

bronze, lead, wool and leather. Avoid contact with combustible materials.

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

Eye/Face Protection Goggles. If splashes are likely to occur, wear:. Face-shield. Avoid contact with eyes. Where

there is potential for eye contact have eye flushing equipment available.

Skin protection Chemical resistant gloves. Impervious clothing.

No information available

Respiratory protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

Odor

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state

appearance clear Colorless

color No information available

VALUES Remarks/ • Method Property

Melting point/freezing point No information available **Boiling Point/Range** No information available

Flash Point

Evaporation Rate No information available flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit No information available **Lower Flammability Limit** No information available No information available vapor pressure **Vapor Density** No information available Specific gravity No information available Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature** decomposition temperature No information available Viscosity, kinematic No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

OTHER INFORMATION

No information available Softening point molecular weight No information available **VOC Content** No information available density No information available

Bulk density 9.82 lb/gal

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep away from children.

incompatible materials

May react violently with strong acids and oxidizers. Avoid contact with zinc, aluminum, tin, bronze, lead, wool and leather. Avoid contact with combustible materials.

Hazardous decomposition products

No information available.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation There is no data available for this product.

Eye contact There is no data available for this product.

Skin contact There is no data available for this product.

Ingestion There is no data available for this product.

Component Information

Sodium hydroxideSingle exposure studies indicate that this material is slightly toxic if absorbed through skin (rat LD50 1,350 mg/kg) and corrosive to rabbit eyes and skin. Many publications in the scientific literature confirm that this material is corrosive to all tissues. Repeated inhalation resulted in lung damage in rats. No tumors were seen in long-term animalo studies. No genetic changes were observed in tests using bacteria. No significant increases in mortality in relation to duration or intensity of exposures were reported in an epidemiologic study of a small group of workers exposed to caustic dust for 30 + years. Massive ingestion of this material has been implicated as causing esophageal cancer. Squamous cell carcinomas of the esophagus occurred approximately 12-24 years later in individuals who survived accidental childhood ingestion and are likely due to the tissue destruction and possible scarring of the esophagus rather than a direct effect of this material.

 Chemical name
 LD50 Oral
 LD50 Dermal
 LC50 Inhalation

 Sodium hydroxide 1310-73-2
 = 1350 mg/kg (Rabbit)

Information on Toxicological Effects

Symptoms No information available.

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

sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Reproductive effects Not Available.

STOT - Single Exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

Numerical Measures of Toxicity - No information available

12. Ecological Information

ecotoxicity

No information available

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Can be incinerated, when in compliance with local regulations. Dispose of in accordance

with all applicable federal, state, and local laws and regulations. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not

apply directly to wetlands or water.

Contaminated packaging Refer to product label.

Chemical name Sodium hydroxide

14. Transport Information

DOT

UN-No 1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group PG II

Reportable Quantity (RQ): 1,000 lbs (454 kg) Sodium hydroxide

<u>ICAO</u>

UN-No 1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group PG II

<u>IATA</u>

UN-No 1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group PG II

IMDG/IMO

UN-No 1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group PG II
EmS No. F-A, S-B

15. Regulatory Information

International Inventories

USINV Not determined DSL/NDSL Not determined EINECS/ Complies

ELINCS

ENCS Does not comply

China Complies
KECL Complies
PICCS Complies
AICS Complies
TSCA Complies

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 Commercial Chemical Substances/EU 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

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 and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous

Categorization

Acute health hazardyesChronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive HazardNo

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			Х

Chemical name	RQ	CERCLA EHS RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final
1310-73-2			RQ

CERCLA

Component	RQ
Sodium hydroxide	1000 lb
1310-73-2 (5-40)	

RCRA

Pesticide Information

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	Х	X	X		

International regulations

U.S. EPA Label information

EPA Pesticide registration number Not applied

16. Other Information

NFPA HEALTH 3 flammability 0 Instability 0 Physical hazard -

Preparation Date 01-Apr-2015
Revision date 01-Dec-2015
Revision Summers

Revision Summary Update section 1 Disclaimer

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks associated with the use of this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Decco US Post-Harvest, Inc. harmless from any claims relating to such factores.

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End of MSDS