

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
SDS Reference Number: 31537
Issue date: 3/14/2025 Version: 1.0

SECTION 1 Identification**1.1. Product identifier**

Product form : Mixture
Product name : Motivity High pH Presoak

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Motivity
900 Mendelssohn Ave N
Golden Valley, MN, 55427
USA
T 800-636-7990

1.5. Emergency phone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2 Hazard Identification**2.1. Classification of the substance or mixture****GHS US classification**

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

Full text of H statements : see section 16

2.2. Label elements**GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: P260 - Do not breathe dusts or mists.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

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P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P314 - Get medical advice or attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P363 - Take off immediately all contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
SODIUM HYDROXIDE	CAS-No.: 1310-73-2	5 – 10	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT	CAS-No.: 64-02-8	1 – 10	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES AND/OR LAURYLAMINE OXIDE	CAS-No.: 70592-80-2 / 1643-20-5	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
ETHOXYLATED ALCOHOL	-	0.5 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

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SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

SODIUM HYDROXIDE (1310-73-2)

Local name	Sodium hydroxide
ACGIH OEL Ceiling	2 mg/m ³
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2022

Local name	Sodium hydroxide
OSHA PEL TWA	2 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)

ACGIH OEL TWA	2 mg/m ³
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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Clear
Odor	: Fresh
Odor threshold	: No data available
pH	: 12.3 @ 1% pH
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: > 100 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.11 at 15.6°C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

COMP - SODIUM HYDROXIDE (2)

Particle characteristics	No data available
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COMP - AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES AND/OR LAURYLAMINE OXIDE

Particle characteristics	No data available
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COMP - ETHOXYLATED ALCOHOL

Particle characteristics	No data available
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*COMP - ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT

Particle characteristics	No data available
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9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Motivity High pH Presoak

ATE US (oral)	1274.011 mg/kg body weight
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SODIUM HYDROXIDE (1310-73-2)

ATE US (oral)	100 mg/kg body weight
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ETHOXYLATED ALCOHOL

ATE US (oral)	500 mg/kg body weight
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ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 12.3 @ 1% pH

SODIUM HYDROXIDE (1310-73-2)	
pH	14 (5.0 %)

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
pH	11 (1 %)

Serious eye damage/irritation : Causes serious eye damage.
pH: 12.3 @ 1% pH

SODIUM HYDROXIDE (1310-73-2)	
pH	14 (5.0 %)

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
pH	11 (1 %)

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

SODIUM HYDROXIDE (1310-73-2)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg body weight Animal: rat, Animal sex: male
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Motivity High pH Presoak	
Viscosity, kinematic	No data available

SODIUM HYDROXIDE (1310-73-2)	
Viscosity, kinematic	No data available

AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES AND/OR LAURYLAMINE OXIDE (70592-80-2 / 1643-20-5)	
Viscosity, kinematic	No data available

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SODIUM HYDROXIDE (1310-73-2)	
ETHOXYLATED ALCOHOL	
Viscosity, kinematic	No data available
ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
Viscosity, kinematic	No data available
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

SODIUM HYDROXIDE (1310-73-2)	
LC50 - Fish [1]	189 mg/l (Leuciscus idus, Pure substance)
EC50 - Crustacea [1]	40.4 mg/l Source: ECHA
ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)	
LC50 - Fish [1]	121 mg/l (96 h, Lepomis macrochirus, Literature study, Soft water)
EC50 - Crustacea [1]	625 mg/l (24 h, Daphnia magna, Literature study)
EC50 72h - Algae [1]	100 mg/l Source: IUCLID
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

12.2. Persistence and degradability

Motivity High pH Presoak	
Persistence and degradability	Not rapidly degradable
SODIUM HYDROXIDE (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES AND/OR LAURYLAMINE OXIDE (70592-80-2 / 1643-20-5)	
Persistence and degradability	Not rapidly degradable

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ETHOXYLATED ALCOHOL

Persistence and degradability	Not rapidly degradable
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ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)

Persistence and degradability	Not readily biodegradable in water.
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Biochemical oxygen demand (BOD)	< 0.002 g O ₂ /g substance
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Chemical oxygen demand (COD)	0.54 – 0.58 g O ₂ /g substance
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12.3. Bioaccumulative potential

SODIUM HYDROXIDE (1310-73-2)

Partition coefficient n-octanol/water (Log Pow)	-3.88 Source: SRC
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Bioaccumulative potential	Not bioaccumulative.
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ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)

Partition coefficient n-octanol/water (Log Pow)	-2.6
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Bioaccumulative potential	Not bioaccumulative.
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12.4. Mobility in soil

SODIUM HYDROXIDE (1310-73-2)

Ecology - soil	No (test)data on mobility of the component(s) available.
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12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT

14.1. UN number

UN-No.(DOT) : UN1824

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Sodium hydroxide solution

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8

Hazard labels (DOT) : 8

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14.4. Packing group

Packing group (DOT) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No.(DOT) : UN1824
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
SODIUM HYDROXIDE	1310-73-2	Present	Active	
AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES AND/OR LAURYLAMINE OXIDE	70592-80-2 / 1643-20-5	Not present	-	
ETHOXYLATED ALCOHOL		Not present	-	
ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT	64-02-8	Present	Active	

SODIUM HYDROXIDE (1310-73-2)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	1000 lb
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15.2. International regulations

CANADA

SODIUM HYDROXIDE (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

No additional information available

National regulations

SODIUM HYDROXIDE (1310-73-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID TETRASODIUM SALT (64-02-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

No additional information available

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

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Full text of hazard classes and H-statements

H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.