



# Neogen® Sample Handling Products- Neutralizing Buffer

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 10/11/2025 Revision date: 19/06/2026 Supersedes: 07/06/2026 Version: 3.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Neogen® Sample Handling Products- Neutralizing Buffer  
Name : Neogen Sample Handling Products- Neutralizing Buffer  
Product code SHP-NB

#### 1.2. Other means of identification

Part Number(s) : HS10NB2G|SSL10NB|SSL10NB2G|RS9604NB|RS96010NB|HS10NB|700002002|700002003|700002004|700002011|700002040|700002213

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals, Scientific research and development

#### 1.4. Supplier's details

##### Manufacturer

Neogen Corporation  
620 Leshar Place Lansing 48912 Michigan United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.5. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified

#### 2.2. Label elements

No additional information available

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS PH classification
Water	CAS-No.: 7732-18-5	> 99	Not classified
TAMOL NN 9104	CAS-No.: 9084-06-4	≥ 0.1 – < 0.5	Not classified

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Name	Product identifier	%	GHS PH classification
Sodium sulfate	CAS-No.: 7757-82-6	< 0.1	Expl. Not applicable Flam. Gas Not applicable Aerosol Not applicable Ox. Gas Not applicable Press. Gas Not applicable Flam. Liq. Not applicable Self-react. Not applicable Pyr. Liq. Not applicable Ox. Liq. Not applicable Org. Perox. Not applicable Met. Corr. Classification not possible Acute Tox. Classification not possible (Dermal) Acute Tox. Classification not possible (Inhalation:vapour) Acute Tox. Classification not possible (Inhalation:dust,mist) Eye Irrit. 2B, H320 STOT SE 1, H370
Potassium phosphate monobasic, anhydrous	CAS-No.: 7778-77-0	< 0.1	Not classified
Sodium thiosulfate, anhydrous	CAS-No.: 7772-98-7	< 0.1	Acute Tox. 4 (Inhalation:dust,mist), H332
formaldehyde (37%)	CAS-No.: 50-00-0	< 0.001	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:gas), H330 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 STOT RE 1, H372

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of any immediate medical attention and special treatment needed

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

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Reactivity : The product is non-reactive under normal conditions of use, storage and transport.  
General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

#### 5.3. Special protective actions 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.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

##### 6.1.2. 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".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material 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 without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Always store product in container of same material as original container.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### formaldehyde (37%) (50-00-0)

##### Philippines - Occupational Exposure Limits

Local name	Formaldehyde
OEL C	6 mg/m <sup>3</sup>
	5 ppm
Regulatory reference	Occupational Safety And Health Standards Philippines

##### Exposure limit values for the other components

No additional information available

#### 8.2. Monitoring

No additional information available

#### 8.3. Appropriate engineering controls

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

#### 8.4. 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):



Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Aqueous solution.  
Colour : Colourless

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Odour	: Slight
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	: Stable under normal conditions
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: None under recommended storage and handling conditions (see section 7)
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: Toxicological information

### 11.1. Acute toxicity

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Water (7732-18-5)	
LD50 oral rat	90000 mg/kg
TAMOL NN 9104 (9084-06-4)	
LD50 oral rat	> 2000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 17.4 mg/l (4 h, Rat, Inhalation)
Sodium sulfate (7757-82-6)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 15 day(s))
LD50 oral	10000 mg/kg
LC50 Inhalation - Rat	> 2.4 mg/l air (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))

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<b>Potassium phosphate monobasic, anhydrous (7778-77-0)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	> 4640 mg/kg Source: National Library of Medicine
LC50 Inhalation - Rat	> 0.83 mg/l air (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
<b>Sodium thiosulfate, anhydrous (7772-98-7)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.6 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s))
<b>formaldehyde (37%) (50-00-0)</b>	
LD50 oral rat	800 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, 2 % aqueous solution, Oral, 14 day(s))
LD50 oral	600 mg/kg
LD50 dermal rabbit	270 mg/kg
LD50 dermal	270 mg/kg
LC50 Inhalation - Rat [ppm]	490 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (gases))
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>formaldehyde (37%) (50-00-0)</b>	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens
Reproductive toxicity	: Not classified
STOT - single exposure	: Not classified
<b>Sodium sulfate (7757-82-6)</b>	
STOT - single exposure	Causes damage to organs.
<b>formaldehyde (37%) (50-00-0)</b>	
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	: Not classified
<b>Potassium phosphate monobasic, anhydrous (7778-77-0)</b>	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>formaldehyde (37%) (50-00-0)</b>	
NOAEL (oral, rat, 28 days)	25 mg/kg bw/day
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>Sodium sulfate (7757-82-6)</b>	
LC50 - Fish [1]	7960 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal)
LC50 - Fish [2]	≈ 7960 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	3150.21 mg/l
ErC50 algae	1584.583 mg/l
NOEC chronic fish	245 mg/l
NOEC chronic crustacea	728 mg/l
NOEC chronic algae	1265 mg/l
Partition coefficient n-octanol/water (Log Pow)	-3 Source: OECD Screening Information Data Set
<b>Potassium phosphate monobasic, anhydrous (7778-77-0)</b>	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	12700000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
<b>Sodium thiosulfate, anhydrous (7772-98-7)</b>	
LC50 - Fish [1]	510 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Read-across, Lethal)
EC50 - Crustacea [1]	230 mg/l (48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, Growth rate)
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'
Partition coefficient n-octanol/water (Log Pow)	-4.35 Source: International Chemical Safety Cards
<b>formaldehyde (37%) (50-00-0)</b>	
LC50 - Fish [1]	6.7 mg/l (96 h, Morone saxatilis, Static system, Salt water, Experimental value, Lethal)

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<b>formaldehyde (37%) (50-00-0)</b>	
EC50 - Crustacea [1]	5.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia pulex, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	3.48 mg/l Source: ECHA
ErC50 algae	3.48 mg/l
NOEC (chronic)	≥ 6.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 48 mg/l Test organisms (species): Oryzias latipes Duration: '28 d'
NOEC chronic crustacea	1.04 mg/l
BCF - Fish [1]	< 1 (1 h, Flow-through system, Salt water, Weight of evidence)
Partition coefficient n-octanol/water (Log Pow)	0.35 (Calculated, KOWWIN, 25 °C)

### 12.2. Persistence and degradability

#### Neogen® Sample Handling Products- Neutralizing Buffer

Persistence and degradability	Not rapidly degradable
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#### Water (7732-18-5)

Persistence and degradability	Not rapidly degradable
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#### TAMOL NN 9104 (9084-06-4)

Persistence and degradability	Not readily biodegradable in water.
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Biochemical oxygen demand (BOD)	0.187 g O <sub>2</sub> /g substance
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Chemical oxygen demand (COD)	1.45 g O <sub>2</sub> /g substance
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#### Sodium sulfate (7757-82-6)

Persistence and degradability	Biodegradability: not applicable.
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Chemical oxygen demand (COD)	Not applicable (inorganic)
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ThOD	Not applicable (inorganic)
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#### Potassium phosphate monobasic, anhydrous (7778-77-0)

Persistence and degradability	Biodegradability: not applicable.
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Chemical oxygen demand (COD)	Not applicable (inorganic)
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ThOD	Not applicable (inorganic)
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#### Sodium thiosulfate, anhydrous (7772-98-7)

Persistence and degradability	Biodegradability: not applicable.
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Chemical oxygen demand (COD)	Not applicable
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ThOD	Not applicable
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BOD (% of ThOD)	Not applicable
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#### formaldehyde (37%) (50-00-0)

Persistence and degradability	Readily biodegradable in water.
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Biodegradation	91 % OECD Test Guideline 301C, 14 d
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### 12.3. Bioaccumulative potential

#### Neogen® Sample Handling Products- Neutralizing Buffer

Bioaccumulative potential	No additional information available
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<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>TAMOL NN 9104 (9084-06-4)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>Sodium sulfate (7757-82-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	-3 Source: OECD Screening Information Data Set
Bioaccumulative potential	Not bioaccumulative.
<b>Potassium phosphate monobasic, anhydrous (7778-77-0)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>Sodium thiosulfate, anhydrous (7772-98-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-4.35 Source: International Chemical Safety Cards
Bioaccumulative potential	No bioaccumulation data available.
<b>formaldehyde (37%) (50-00-0)</b>	
BCF - Fish [1]	< 1 (1 h, Flow-through system, Salt water, Weight of evidence)
Partition coefficient n-octanol/water (Log Pow)	0.35 (Calculated, KOWWIN, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

<b>Neogen® Sample Handling Products- Neutralizing Buffer</b>	
Mobility in soil	No additional information available
<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>Sodium sulfate (7757-82-6)</b>	
Surface tension	71 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	-3 Source: OECD Screening Information Data Set
Ecology - soil	No (test)data on mobility of the substance available.
<b>Potassium phosphate monobasic, anhydrous (7778-77-0)</b>	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
<b>Sodium thiosulfate, anhydrous (7772-98-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-4.35 Source: International Chemical Safety Cards
<b>formaldehyde (37%) (50-00-0)</b>	
Surface tension	73 mN/m (20 °C, Aqueous solution, 7.5 g/l)
Partition coefficient n-octanol/water (Log Pow)	0.35 (Calculated, KOWWIN, 25 °C)
Ecology - soil	Not applicable (gas). Toxic to flora.

### 12.5. Other adverse affects

Ozone	: Not classified
Other adverse effects	: No additional information available

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### SECTION 13: Disposal consideration

Ecological waste information	: The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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 IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

#### 14.6. Special precautions for user

##### UN RTDG

Not regulated

##### IMDG

Not regulated

##### IATA

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. National regulations

##### Priority Chemical List (PCL) and Chemical Control Orders (CCO)

Initial List of Single Substances and Compounds Covered under Chemical Control Order (CCO) and Priority Chemical List (PCL) DENR Administrative Order 2015-09	Not applicable	
Priority Chemical List DENR Administrative Order 2005-27	Not applicable	
Chemical Control Orders	Not applicable	

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Priority Chemical List (PCL) and Chemical Control Orders (CCO)		
Chemical Control Order for Ozone Depleting Substances	Not applicable	
Others		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Applicable	CRAON 17-502 (7732-18-5) Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt (9084-06-4) GLAUBER'S SALT (7757-82-6) MONOPOTASSIUM PHOSPHATE (7778-77-0) Sodium Thiosulfate (7772-98-7) Formaldehyde (50-00-0)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients (Decree No. 1866)	Not applicable	
Comprehensive Dangerous Drugs Act of 2002	Not applicable	
Fertilizers and Pesticides Regulation (Decree No. 1144)	Not applicable	
Food Additives Regulation	Not applicable	
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Source Specific Ambient Air Quality Standards	Formaldehyde (50-00-0)
High Volume Chemicals List	Applicable	Sodium sulfate (7757-82-6) Sodium thiosulfate anhydrous (7772-98-7)

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

Version : 3.0  
Issue date : 10/11/2025  
Revision date : 19/06/2026  
Supersedes : 07/06/2026

Safety Data Sheet (SDS), Philippines

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.