



# Veratox® for Total Milk Allergen

Kit Product

## Kit identification

Trade name : Veratox® for Total Milk Allergen  
Product code : 8470  
Part Number(s) : 8470|700002577

## Details of the supplier of the Kit safety information sheet

### 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/>

## General information

Restrictions on use : Do not use kit components from one kit with any other kit.  
General description : This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). Articles, and otherwise immobilized and inaccessible chemicals, do not have a Safety Data Sheet in this packet.

## Kit contents

Name	GHS classification
Total Milk Allergen-HRP Conjugate	Skin Sens. 1, H317
Total Milk Allergen Multi-Level Controls	Not classified
K-Blue® Advanced Plus TMB Substrate	Not classified
Red Stop Solution	Not classified
Wash Buffer Concentrate, 25X	Not classified
Phosphate Buffered Saline, Foil Pouch	Not classified

## Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
<b>UN number</b>		
Not regulated for transport		
<b>Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated

# Veratox® for Total Milk Allergen

## Kit Safety Information Sheet (SIS)

IMDG	IATA	UNRTDG
<b>Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

### Special precautions for user

#### UN RTDG

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

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

Not applicable



# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 11/08/2025 Revision date: 19/06/2026 Supersedes: 11/08/2025 Version: 2.0

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# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 11/08/2025 Revision date: 19/06/2026 Supersedes: 11/08/2025 Version: 2.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Total Milk Allergen Multi-Level Controls  
Name : Total Milk Allergen Multi-Level Controls 8470

#### 1.2. Other means of identification

No additional information available

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

Recommended use : Scientific research and development, Laboratory chemicals  
Restrictions on use : Do not use kit components from one kit with any other kit.

#### 1.4. Details of the supplier of the safety data sheet

##### 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	≥ 75	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 0.5 – < 1	Not classified
Gelatin	CAS-No.: 9000-70-8	≥ 0.1 – < 0.5	Not classified
Disodium phosphate	CAS-No.: 7558-79-4	≥ 0.1 – < 0.5	Not classified
Dipropylene glycol	CAS-No.: 25265-71-8	< 0.1	Acute Tox. 4 (Inhalation:dust,mist), H332
Sodium phosphate monobasic monohydrate	CAS-No.: 10049-21-5	< 0.1	Eye Irrit. 2A, H319 STOT SE 3, H335

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Name	Product identifier	%	GHS PH classification
1,2-Benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 1, H410
Sodium hydroxide pellets	CAS-No.: 1310-73-2	< 0.1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Eye Dam. 1, H318
Whey powder	CAS-No.: 68514-61-4	< 0	Not classified

### 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/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

#### 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: Firefighting 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. Advice for firefighters

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.

# Total Milk Allergen Multi-Level Controls

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### 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, if possible without risk.  
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.  
Storage temperature : 2 – 8 °C  
Packaging materials : Always store product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Sodium hydroxide pellets (1310-73-2)

##### Philippines - Occupational Exposure Limits

Local name	Sodium Hydroxide
OEL TWA	2 mg/m <sup>3</sup>
Regulatory reference	Occupational Safety And Health Standards Philippines

##### Exposure limit values of 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.

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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.
Color	: Clear, Colorless
Odor	: Odorless, Slight
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=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
Vapor pressure	: No data available
Relative vapor 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
Explosion limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

# Total Milk Allergen Multi-Level Controls

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according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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

<b>Water (7732-18-5)</b>	
LD50 oral rat	90000 mg/kg
<b>Sodium chloride (7647-14-5)</b>	
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20 % aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20 % aqueous solution, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex
<b>Disodium phosphate (7558-79-4)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
LD50 oral rat	8290 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
<b>Dipropylene glycol (25265-71-8)</b>	
LD50 oral rat	> 5000 mg/kg body weight (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5010 mg/kg body weight (EPA OPP 81-2, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.34 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (aerosol), 14 day(s))

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according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
LD50 oral rat	490 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	670 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.21 mg/l/4h
LC50 Inhalation - Rat (Vapors)	0.25 mg/l

<b>Sodium hydroxide pellets (1310-73-2)</b>	
LD50 oral	325 mg/kg
LD50 dermal rabbit	1350 mg/kg

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  
 Reproductive toxicity : Not classified

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
NOAEL (animal/female, F0/P)	112 mg/kg body weight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F1)	56.6 mg/kg body weight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)

Specific target organ toxicity – single exposure : Not classified

<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

<b>Disodium phosphate (7558-79-4)</b>	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
NOAEL (oral,rat,90 days)	50 mg/kg bw/day
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or 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

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>Sodium chloride (7647-14-5)</b>	
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
LOEC (chronic)	441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
NOEC (chronic)	314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
<b>Disodium phosphate (7558-79-4)</b>	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	564000000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
LC50 - Fish [1]	> 2400 mg/l (48 h, Leuciscus idus, Anhydrous form)
<b>Dipropylene glycol (25265-71-8)</b>	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, Nominal concentration)
LC50 - Fish [2]	> 1000 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Measured concentration)
EC50 96h - Algae [1]	1064.8 mg/l Source: ECOTOX
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
LC50 - Fish [1]	2.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, Nominal concentration)
LC50 - Fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	2.9 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, Lethal)
EC50 - Crustacea [2]	2.9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.51 mg/l
ErC50 algae	150 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)
NOEC chronic algae	0.0403 mg/l
BCF - Fish [1]	6.6 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 1 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
<b>Sodium hydroxide pellets (1310-73-2)</b>	
LC50 - Fish [1]	189 mg/l (48 h, Leuciscus idus, Fresh water, Experimental value)
EC50 - Crustacea [1]	40 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect)
Partition coefficient n-octanol/water (Log Pow)	-3.88 Source: SRC
<b>12.2. Persistence and degradability</b>	
<b>Total Milk Allergen Multi-Level Controls</b>	
Persistence and degradability	Not rapidly degradable
<b>Water (7732-18-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>Sodium chloride (7647-14-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>Disodium phosphate (7558-79-4)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Gelatin (9000-70-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Dipropylene glycol (25265-71-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Sodium hydroxide pellets (1310-73-2)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>Whey powder (68514-61-4)</b>	
Persistence and degradability	Not rapidly degradable

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 12.3. Bioaccumulative potential

Total Milk Allergen Multi-Level Controls	
Bioaccumulative potential	No additional information available
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Sodium chloride (7647-14-5)	
Bioaccumulative potential	Not bioaccumulative.
Disodium phosphate (7558-79-4)	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Bioaccumulative potential	Not bioaccumulative.
Sodium phosphate monobasic monohydrate (10049-21-5)	
Bioaccumulative potential	No bioaccumulation data available.
Dipropylene glycol (25265-71-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Bioaccumulative potential	Not bioaccumulative.
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
BCF - Fish [1]	6.6 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 1 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Sodium hydroxide pellets (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88 Source: SRC
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

Total Milk Allergen Multi-Level Controls	
Mobility in soil	No additional information available
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Sodium chloride (7647-14-5)	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.
Disodium phosphate (7558-79-4)	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Ecology - soil	No (test)data on mobility of the substance available.

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>Dipropylene glycol (25265-71-8)</b>	
Surface tension	71.4 mN/m (22 °C, 1.01 g/l, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Surface tension	72.6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 1 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.
<b>Sodium hydroxide pellets (1310-73-2)</b>	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-3.88 Source: SRC
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

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

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

IMDG	IATA	UNRTDG
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	
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) SODIUM CHLORIDE (7647-14-5) Di-Sodium Hydrogen Phosphate (7558-79-4) ANIMAL GLUE (9000-70-8) Phosphoric acid, monosodium salt, monohydrate (10049-21-5) DIPROPYLENE GLYCOL (25265-71-8) 1,2-Benzisothiazol-3(2H)-one (2634-33-5) ANHYDROUS (CAUSTIC SODA) (1310-73-2) Milk, skim, hydrolyzed (68514-61-4)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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	Enzymes permitted for use in food	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4)
	Additives approved only for use as food processing	Sodium hydroxide pellets (1310-73-2)

# Total Milk Allergen Multi-Level Controls

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Others		
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	
High Volume Chemicals List	Applicable	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4) Sodium hydroxide (1310-73-2)

### 15.2. International regulations

No additional information available

### SECTION 16: Other information

Version : 2.0  
Issue date : 11/08/2025  
Revision date : 19/06/2026  
Supersedes : 11/08/2025

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.

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Total Milk Allergen-HRP Conjugate  
Name : Total Milk Allergen-HRP Conjugate 8470

#### 1.2. Other means of identification

No additional information available

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

Recommended use : Scientific research and development, Laboratory chemicals  
Restrictions on use : Do not use kit components from one kit with any other kit.

#### 1.4. Details of the supplier of the safety data sheet

##### 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

Skin sensitization, Category 1 H317

#### 2.2. Label elements

Hazard pictograms (GHS PH) :



Signal word (GHS PH) : Warning  
Contains : Proprietary Enzyme  
Hazard statements (GHS PH) : H317 - May cause an allergic skin reaction  
Precautionary statements (GHS PH) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P317 - If skin irritation or rash occurs: Get medical help.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

No additional information available

# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS PH classification
Proprietary Enzyme	-	≥ 50 – < 75	Skin Sens. 1, H317
Water	CAS-No.: 7732-18-5	≥ 25 – < 50	Not classified
Caseins, hydrolyzates	CAS-No.: 65072-00-6	≥ 0.1 – < 0.5	Not classified

### 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. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First-aiders should consider self-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	: May cause an allergic skin reaction.
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: Firefighting 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. Advice for firefighters

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.

# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

##### 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, if possible without risk.  
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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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.  
Storage temperature : 2 – 8 °C  
Packaging materials : Always store product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

##### Exposure limit values of 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.

# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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	: Solution.
Color	: Clear, Amber
Odor	: Odourless, Slight
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=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
Vapor pressure	: No data available
Relative vapor 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
Explosion 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

# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or 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

#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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#### 12.2. Persistence and degradability

##### Total Milk Allergen-HRP Conjugate

Persistence and degradability	Not rapidly degradable
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##### Proprietary Enzyme

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

Persistence and degradability	Not rapidly degradable
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##### Caseins, hydrolyzates (65072-00-6)

Persistence and degradability	Not rapidly degradable
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# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 12.3. Bioaccumulative potential

#### Total Milk Allergen-HRP Conjugate

Bioaccumulative potential : No additional information available

#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow) : -1.38

### 12.4. Mobility in soil

#### Total Milk Allergen-HRP Conjugate

Mobility in soil : No additional information available

#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow) : -1.38

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

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

# Total Milk Allergen-HRP Conjugate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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	
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) CASEIN HYDROLYSATE (65072-00-6)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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	Not applicable	
High Volume Chemicals List	Not applicable	

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

Version	: 2.0
Issue date	: 11/08/2025
Revision date	: 19/06/2026
Supersedes	: 11/08/2025

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.



# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 01/07/2025 Revision date: 18/06/2026 Supersedes: 01/06/2026 Version: 5.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : K-Blue® Advanced Plus TMB Substrate  
Name : K-Blue Advanced Plus TMB Substrate  
Product code : 379210

#### 1.2. Other means of identification

Part Number(s) : 379210|379171||379175|379176|379177|379257|379xxx|700006518|700006523

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

Recommended use : Scientific research and development, Laboratory chemicals

#### 1.4. Details of the supplier of the safety data sheet

Neogen Corporation  
620 Leshler 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	> 90	Not classified
Dimethyl sulfoxide	CAS-No.: 67-68-5	≥ 5 – < 10	Flam. Liq. 4, H227
Buffer salts	-	≥ 0.1 – < 0.5	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335
Buffer salts	-	≥ 0.1 – < 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Name	Product identifier	%	GHS PH classification
Peroxide	-	< 0.1	Ox. Sol. 3, H272 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411
Preservative	-	< 0.1	Skin Sens. 1, H317
3,3',5,5'-Tetramethylbenzidine	CAS-No.: 54827-17-7	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Preservative	-	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

## 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/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

### 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: Firefighting 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. Advice for firefighters

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.

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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, if possible without risk.  
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.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

##### Exposure limit values of 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

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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	: Solution.
Color	: Clear
Odor	: Odorless
Odor threshold	: No data available
pH	: $\geq 3.1 - \leq 3.4$
Relative evaporation rate (butyl acetate=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
Vapor pressure	: No data available
Relative vapor 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
Explosion 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

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

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

<b>Water (7732-18-5)</b>	
LD50 oral rat	90000 mg/kg

<b>Dimethyl sulfoxide (67-68-5)</b>	
LD50 oral rat	28300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	14500 mg/kg
LD50 dermal rat	40000 mg/kg body weight (Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	40000 mg/kg
LC50 Inhalation - Rat	> 5.33 mg/l Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	5.33 mg/l/4h

<b>Buffer salts</b>	
LD50 oral rat	11700 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 7 day(s))
LD50 oral	5400 mg/kg body weight (Equivalent or similar to OECD 401, Mouse, Male / female, Experimental value, Oral, 10 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

<b>Buffer salts</b>	
LD50 oral rat	> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
LD50 dermal rabbit	5900 mg/kg Source: Corporate Solution From Thomson Micromedex

<b>Peroxide</b>	
LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 oral	2500 mg/kg
LD50 dermal rabbit	700 mg/kg body weight (Rabbit, Experimental value, Skin)

<b>Preservative</b>	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)

Skin corrosion/irritation	: Not classified. pH: $\geq 3.1 - \leq 3.4$
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Specific target organ toxicity – single exposure : Not classified

Buffer salts	
Specific target organ toxicity – single exposure	May cause respiratory irritation.
Buffer salts	
Specific target organ toxicity – single exposure	May cause respiratory irritation.
Peroxide	
Specific target organ toxicity – single exposure	May cause respiratory irritation.
3,3',5,5'-Tetramethylbenzidine (54827-17-7)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.
Preservative	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Dimethyl sulfoxide (67-68-5)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	2.783 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EPA OPPTS 870.3465 (90-Day Inhalation Toxicity)
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: other:
Buffer salts	
LOAEL (oral, rat, 90 days)	8000 mg/kg body weight Animal: rat
NOAEL (oral, rat, 90 days)	4000 mg/kg body weight Animal: rat
Buffer salts	
LOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Peroxide	
NOAEL (dermal, rat/rabbit, 90 days)	216 mg/kg body weight Animal: rat
NOAEL (subchronic, oral, animal/male, 90 days)	26 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	37 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or 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.

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

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<b>Dimethyl sulfoxide (67-68-5)</b>	
LC50 - Fish [1]	> 25 g/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	25 g/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	17 g/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	-1.4 (Experimental value, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.64 (log Koc, SRC PCKOCWIN v1.66, Calculated value)

<b>Buffer salts</b>	
LC50 - Fish [1]	440 – 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Other aquatic organisms [1]	> 50 mg/l Test organisms (species): other aquatic crustacea:
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.6 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<b>Buffer salts</b>	
LC50 - Fish [1]	955.892 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	> 980 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]	397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	163.053 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	397 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	-2.31 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.34 – 1.87 (log Koc, QSAR)

<b>Peroxide</b>	
LC50 - Fish [1]	> 10000 mg/l (48 h, Leuciscus melanotus, Static system, Fresh water, Experimental value)
LC50 - Fish [2]	37.4 mg/l Test organisms (species): Ictalurus punctatus
EC50 - Crustacea [1]	> 10000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 - Other aquatic organisms [1]	5.6 mg/l Test organisms (species): other:
EC50 - Other aquatic organisms [2]	2 mg/l Test organisms (species): other:
Partition coefficient n-octanol/water (Log Pow)	0.09 (QSAR, 25 °C)

<b>Preservative</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.54 (Estimated value)

## 12.2. Persistence and degradability

<b>K-Blue® Advanced Plus TMB Substrate</b>	
Persistence and degradability	Not rapidly degradable

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<b>Water (7732-18-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>Dimethyl sulfoxide (67-68-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Buffer salts</b>	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.42 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.728 g O <sub>2</sub> /g substance
ThOD	0.686 g O <sub>2</sub> /g substance
<b>Buffer salts</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Peroxide</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Preservative</b>	
Persistence and degradability	Not rapidly degradable
<b>3,3',5,5'-Tetramethylbenzidine (54827-17-7)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>Preservative</b>	
Persistence and degradability	Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

<b>K-Blue® Advanced Plus TMB Substrate</b>	
Bioaccumulative potential	No additional information available
<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>Dimethyl sulfoxide (67-68-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.4 (Experimental value, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.64 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Bioaccumulative potential	Not bioaccumulative.
<b>Buffer salts</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.6 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Not bioaccumulative.
<b>Buffer salts</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.31 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.34 – 1.87 (log Koc, QSAR)
Bioaccumulative potential	Not bioaccumulative.

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<b>Peroxide</b>	
Partition coefficient n-octanol/water (Log Pow)	0.09 (QSAR, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>3,3',5,5'-Tetramethylbenzidine (54827-17-7)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>Preservative</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.54 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

<b>K-Blue® Advanced Plus TMB Substrate</b>	
Mobility in soil	No additional information available
<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>Dimethyl sulfoxide (67-68-5)</b>	
Surface tension	43.5 mN/m (20 °C, 100 vol %)
Partition coefficient n-octanol/water (Log Pow)	-1.4 (Experimental value, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.64 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.
<b>Buffer salts</b>	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.6 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
<b>Buffer salts</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.31 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.34 – 1.87 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.
<b>Peroxide</b>	
Partition coefficient n-octanol/water (Log Pow)	0.09 (QSAR, 25 °C)
<b>Preservative</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.54 (Estimated value)

### 12.5. Other adverse effects

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

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### SECTION 13: Disposal considerations

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) DIMETHYLSULFOXIDE (67-68-5) Buffer salts Peroxide Preservative
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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	Not applicable	
High Volume Chemicals List	Applicable	Tetramethylbezdine (54827-17-7)

### 15.2. International regulations

No additional information available

### SECTION 16: Other information

Version : 5.0  
Issue date : 01/07/2025  
Revision date : 18/06/2026  
Supersedes : 01/06/2026

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.



# Red Stop Solution

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 07/07/2025 Revision date: 18/06/2026 Supersedes: 01/06/2026 Version: 5.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Red Stop Solution  
Name : Red Stop Solution  
Product code : 301210

#### 1.2. Other means of identification

Part Number(s) : 301210|301471|301473|301474|301475|301476|700006516

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

Recommended use : Laboratory chemicals, Scientific research and development

#### 1.4. Details of the supplier of the safety data sheet

##### 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	> 98	Not classified
Buffer salts	-	≥0.5 -< 2	Not classified
Buffer salts	-	≥ 0.1 – < 0.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372

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Name	Product identifier	%	GHS PH classification
Preservative	-	< 0.1	Not classified
Preservative	-	< 0.1	Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373
Buffer salts	-	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT RE 2, H373

### 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/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

#### 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: Firefighting 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. Advice for firefighters

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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# Red Stop Solution

## Safety Data Sheet

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### 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, if possible without risk.  
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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Buffer salts	
Philippines - Occupational Exposure Limits	
OEL TWA	1 mg/m <sup>3</sup>
Regulatory reference	Occupational Safety And Health Standards Philippines

### Exposure limit values of 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

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### 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.
Color	: Red
Odor	: Odorless
Odor threshold	: No data available
pH	: 8.7
Relative evaporation rate (butyl acetate=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
Vapor pressure	: No data available
Relative vapor 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
Explosion 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)

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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
Buffer salts	
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20 % aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20 % aqueous solution, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex
Buffer salts	
LD50 oral rat	223 mg/kg body weight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	69 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, Rat, Experimental value, Dermal)
LC50 Inhalation - Rat	1 mg/l/4h
Buffer salts	
LD50 oral rat	1530 mg/kg
LD50 oral	2000 mg/kg
LD50 dermal rabbit	2000 mg/kg
LD50 dermal	1071 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.9615 mg/l/4h
Preservative	
LD50 oral rat	2800 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Anhydrous form, Oral)

Skin corrosion/irritation	: Not classified pH: 8.7
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Buffer salts	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

# Red Stop Solution

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Buffer salts	
LOAEL (oral, rat, 90 days)	≈ 4 mg/kg body weight Animal: rat, Guideline: other:
NOAEL (oral, rat, 90 days)	≈ 25 mg/kg body weight Animal: rat, Guideline: other:
Specific target organ toxicity – repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Buffer salts	
NOAEL (oral, rat, 28 days)	250 mg/kg bw/day
NOAEL (oral, rat, 90 days)	338 mg/kg bw/day
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Preservative	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or 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

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Buffer salts	
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, <i>Lepomis macrochirus</i> , Flow-through system, Fresh water, Experimental value, Lethal)
LOEC (chronic)	441 mg/l Test organisms (species): <i>Daphnia pulex</i> Duration: '21 d'
NOEC (chronic)	314 mg/l Test organisms (species): <i>Daphnia pulex</i> Duration: '21 d'
Buffer salts	
LC50 - Fish [1]	107.5 ppm (US EPA, 96 h, <i>Oncorhynchus mykiss</i> , Static system, Fresh water, Experimental value, Fluorine ion)
LC50 - Fish [2]	165 mg/l Test organisms (species): other:
EC50 - Crustacea [1]	97 mg/l (48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Fluorine ion)
EC50 72h - Algae [1]	850 mg/l Source: NCIS; Toxic Substances Information Report
EC50 96h - Algae [1]	43 mg/l ( <i>Scenedesmus</i> sp., Static system, Experimental value, Fluorine ion)
ErC50 algae	> 100 mg/l
NOEC (chronic)	14.1 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	4 mg/l
NOEC chronic crustacea	8.2 mg/l
BCF - Fish [1]	53 – 58 (Pisces, Fresh water, Literature study, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.77 Source: EPISUITE

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Buffer salts	
LC50 - Fish [1]	75.1 mg/l
EC50 - Crustacea [1]	> 376 mg/l
EC50 72h - Algae [1]	77.9 mg/l
NOEC chronic fish	40 mg/l
NOEC chronic crustacea	1.02 mg/l
Preservative	
LC50 - Fish [1]	705 mg/l (US EPA, 96 h, <i>Lepomis macrochirus</i> , Static system, Fresh water, Read-across, Anhydrous form)
EC50 - Crustacea [1]	140 mg/l (DIN 38412-11, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Anhydrous form)
ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, <i>Scenedesmus subspicatus</i> , Static system, Fresh water, Read-across, Anhydrous form)
BCF - Fish [1]	1.8 (Other, 28 day(s), <i>Lepomis macrochirus</i> , Flow-through system, Fresh water, Read-across, Anhydrous form)
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)

### 12.2. Persistence and degradability

Red Stop Solution	
Persistence and degradability	Not rapidly degradable
Water (7732-18-5)	
Persistence and degradability	Not rapidly degradable
Buffer salts	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Buffer salts	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Preservative	
Persistence and degradability	Not rapidly degradable
Buffer salts	
Persistence and degradability	Biodegradability: not applicable.
Preservative	
Persistence and degradability	Not readily biodegradable in the soil, Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.01 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

Red Stop Solution	
Bioaccumulative potential	No additional information available

# Red Stop Solution

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Buffer salts	
Bioaccumulative potential	Not bioaccumulative.
Buffer salts	
BCF - Fish [1]	53 – 58 (Pisces, Fresh water, Literature study, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.77 Source: EPISUITE
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Buffer salts	
Bioaccumulative potential	No test data of component(s) available.
Preservative	
BCF - Fish [1]	1.8 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Read-across, Anhydrous form)
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

Red Stop Solution	
Mobility in soil	No additional information available
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Buffer salts	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.
Buffer salts	
Partition coefficient n-octanol/water (Log Pow)	-0.77 Source: EPISUITE
Ecology - soil	Adsorbs into the soil. Toxic to flora.
Buffer salts	
Ecology - soil	Highly mobile in soil.
Preservative	
Mobility in soil	312.7 Source: EPISUITE
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

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.
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# Red Stop Solution

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

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	
Chemical Control Order for Ozone Depleting Substances	Not applicable	

# Red Stop Solution

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Others		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Applicable	CRAON 17-502 (7732-18-5) Buffer salts Preservative
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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)	Applicable	Buffer salts
Philippines Clean Air Act	Not applicable	
High Volume Chemicals List	Applicable	Buffer salts

### 15.2. International regulations

No additional information available

### SECTION 16: Other information

Version : 5.0  
Issue date : 07/07/2025  
Revision date : 18/06/2026  
Supersedes : 01/06/2026

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.



# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 11/07/2025 Revision date: 18/06/2026 Supersedes: 24/09/2025 Version: 3.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Wash Buffer Concentrate, 25X  
Name : Wash Buffer Concentrate, 25X  
Product code : 24269

#### 1.2. Other means of identification

Part Number(s) : 8428|24218|24269|400000123|400000128|700002567

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

Recommended use : Scientific research and development, Laboratory chemicals  
Restrictions on use : Do not use kit components from one kit with any other kit.

#### 1.4. Details of the supplier of the safety data sheet

##### Manufacturer

Neogen Corporation  
620 Leshler 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	≥ 50 – < 75	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 15 – < 25	Not classified
Disodium phosphate	CAS-No.: 7558-79-4	≥ 1 – < 5	Not classified
Potassium chloride	CAS-No.: 7447-40-7	≥ 0.5 – < 1	Not classified
Sodium phosphate monobasic monohydrate	CAS-No.: 10049-21-5	≥ 0.1 – < 0.5	Eye Irrit. 2A, H319 STOT SE 3, H335

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Name	Product identifier	%	GHS PH classification
Thimerosal	CAS-No.: 54-64-8	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### 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/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

#### 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: Firefighting 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. Advice for firefighters

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

Protective equipment	: Wear recommended personal protective equipment.
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# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

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, if possible without risk.

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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### Exposure limit values of 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

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### 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	: Solution.
Color	: Clear, Colorless
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=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
Vapor pressure	: No data available
Relative vapor 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
Explosion 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

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### SECTION 11: Toxicological information

#### 11.1. Acute toxicity

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

<b>Water (7732-18-5)</b>	
LD50 oral rat	90000 mg/kg

<b>Sodium chloride (7647-14-5)</b>	
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20 % aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20 % aqueous solution, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex

<b>Disodium phosphate (7558-79-4)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:

<b>Potassium chloride (7447-40-7)</b>	
LD50 oral rat	3020 mg/kg body weight (Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat (Dust/Mist)	> 2.4 mg/l

<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
LD50 oral rat	8290 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

<b>Thimerosal (54-64-8)</b>	
LD50 oral	75 mg/kg
LC50 Inhalation - Rat	0.201 mg/l Source: GESTIS

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>Potassium chloride (7447-40-7)</b>	
NOAEL (chronic,oral,animal/male,2 years)	≈ 1820 mg/kg body weight Animal: rat, Animal sex: male
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified

<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

Disodium phosphate (7558-79-4)	
NOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Potassium chloride (7447-40-7)	
NOAEL (oral, rat, 90 days)	≈ 1820 mg/kg body weight Animal: rat, Animal sex: male
Thimerosal (54-64-8)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or 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.

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
Sodium chloride (7647-14-5)	
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
LOEC (chronic)	441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
NOEC (chronic)	314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
Disodium phosphate (7558-79-4)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	564000000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Potassium chloride (7447-40-7)	
LC50 - Fish [1]	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	440 – 880 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 - Other aquatic organisms [1]	440 – 880 mg/l Test organisms (species): other:
EC50 - Other aquatic organisms [2]	580 – 670 mg/l Test organisms (species): other:
EC50 72h - Algae [1]	> 100 mg/l Source: ECHA

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>Potassium chloride (7447-40-7)</b>	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: OECD Screening Information Data Set
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
LC50 - Fish [1]	> 2400 mg/l (48 h, Leuciscus idus, Anhydrous form)
<b>Thimerosal (54-64-8)</b>	
LC50 - Fish [1]	0.16 mg/l (96 h, Cyprinus carpio, Literature study, Mercury ion)
Partition coefficient n-octanol/water (Log Pow)	-1.88 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.235 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

### 12.2. Persistence and degradability

<b>Wash Buffer Concentrate, 25X</b>	
Persistence and degradability	Not rapidly degradable
<b>Water (7732-18-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>Sodium chloride (7647-14-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>Disodium phosphate (7558-79-4)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Potassium chloride (7447-40-7)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Thimerosal (54-64-8)</b>	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

<b>Wash Buffer Concentrate, 25X</b>	
Bioaccumulative potential	No additional information available

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

<b>Water (7732-18-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.38
<b>Sodium chloride (7647-14-5)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>Disodium phosphate (7558-79-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Bioaccumulative potential	Not bioaccumulative.
<b>Potassium chloride (7447-40-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: OECD Screening Information Data Set
Bioaccumulative potential	Not bioaccumulative.
<b>Sodium phosphate monobasic monohydrate (10049-21-5)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>Thimerosal (54-64-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.88 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.235 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

<b>Wash Buffer Concentrate, 25X</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 chloride (7647-14-5)</b>	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.
<b>Disodium phosphate (7558-79-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Ecology - soil	No (test)data on mobility of the substance available.
<b>Potassium chloride (7447-40-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: OECD Screening Information Data Set
Ecology - soil	Low potential for adsorption in soil.
<b>Thimerosal (54-64-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.88 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.235 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

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

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

### SECTION 13: Disposal considerations

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	

# Wash Buffer Concentrate, 25X

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual

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) SODIUM CHLORIDE (7647-14-5) Di-Sodium Hydrogen Phosphate (7558-79-4) Potassium Chloride (7447-40-7) Phosphoric acid, monosodium salt, monohydrate (10049-21-5) Mercurate(1-), ethyl[2-(mercapto-.kappa.S)benzoato(2-)-.kappa.O]-, sodium (54-64-8)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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	Enzymes permitted for use in food	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4)
	Additives approved only for use as food processing	Potassium chloride (7447-40-7)
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	
High Volume Chemicals List	Applicable	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4) Potassium chloride(Muriate of potash) (7447-40-7)

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

Version : 3.0  
Issue date : 11/07/2025  
Revision date : 18/06/2026  
Supersedes : 24/09/2025

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.



# Phosphate Buffered Saline, Foil Pouch

## Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual  
Issue date: 11/07/2025 Revision date: 18/06/2026 Supersedes: 03/04/2026 Version: 4.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : Phosphate Buffered Saline, Foil Pouch  
Name : Phosphate Buffered Saline, Foil Pouch  
Product code 0114

#### 1.2. Other means of identification

Part Number(s) : 0114|100000012

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

Recommended use : Laboratory chemicals, Scientific research and development

#### 1.4. Details of the supplier of the safety data sheet

##### 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
Sodium chloride	CAS-No.: 7647-14-5	≥ 75	Not classified
Disodium phosphate	CAS-No.: 7558-79-4	≥ 10 – < 15	Not classified
Potassium chloride	CAS-No.: 7447-40-7	≥ 1 – < 5	Not classified
Sodium phosphate monobasic	CAS-No.: 7558-80-7	≥ 1 – < 5	Not classified

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### 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/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First-aiders should consider self-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. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
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: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

#### 5.3. Advice for firefighters

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	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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##### 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.

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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.  
Methods for cleaning up : Mechanically recover the product.

## 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

#### Exposure limit values of 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

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### 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	: Solid
Appearance	: Powder.
Color	: Off-white
Odor	: Mild odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability	: Non flammable
Vapor pressure	: No data available
Relative vapor 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	: Not applicable
Explosion limits	: Not applicable
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

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<b>Sodium chloride (7647-14-5)</b>	
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20 % aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20 % aqueous solution, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex
<b>Disodium phosphate (7558-79-4)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: other., Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:
<b>Potassium chloride (7447-40-7)</b>	
LD50 oral rat	3020 mg/kg body weight (Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat (Dust/Mist)	> 2.4 mg/l
<b>Sodium phosphate monobasic (7558-80-7)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	> 7940 mg/kg Source: IUCLID
LC50 Inhalation - Rat	> 0.83 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))
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>Potassium chloride (7447-40-7)</b>	
NOAEL (chronic,oral,animal/male,2 years)	≈ 1820 mg/kg body weight Animal: rat, Animal sex: male
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
<b>Disodium phosphate (7558-79-4)</b>	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>Potassium chloride (7447-40-7)</b>	
NOAEL (oral,rat,90 days)	≈ 1820 mg/kg body weight Animal: rat, Animal sex: male
<b>Sodium phosphate monobasic (7558-80-7)</b>	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	: Not classified

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Phosphate Buffered Saline, Foil Pouch	
Viscosity, kinematic	Not applicable

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or 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

Sodium chloride (7647-14-5)	
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
LOEC (chronic)	441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
NOEC (chronic)	314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'

Disodium phosphate (7558-79-4)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	564000000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards

Potassium chloride (7447-40-7)	
LC50 - Fish [1]	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	440 – 880 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 - Other aquatic organisms [1]	440 – 880 mg/l Test organisms (species): other:
EC50 - Other aquatic organisms [2]	580 – 670 mg/l Test organisms (species): other:
EC50 72h - Algae [1]	> 100 mg/l Source: ECHA
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: OECD Screening Information Data Set

Sodium phosphate monobasic (7558-80-7)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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<b>Sodium phosphate monobasic (7558-80-7)</b>	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodemus subspicatus, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	-3.96 (Estimated value)

### 12.2. Persistence and degradability

<b>Phosphate Buffered Saline, Foil Pouch</b>	
Persistence and degradability	Not rapidly degradable

<b>Sodium chloride (7647-14-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

<b>Disodium phosphate (7558-79-4)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>Potassium chloride (7447-40-7)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

<b>Sodium phosphate monobasic (7558-80-7)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

<b>Phosphate Buffered Saline, Foil Pouch</b>	
Bioaccumulative potential	No additional information available

<b>Sodium chloride (7647-14-5)</b>	
Bioaccumulative potential	Not bioaccumulative.

<b>Disodium phosphate (7558-79-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Bioaccumulative potential	Not bioaccumulative.

<b>Potassium chloride (7447-40-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: OECD Screening Information Data Set
Bioaccumulative potential	Not bioaccumulative.

<b>Sodium phosphate monobasic (7558-80-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-3.96 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

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### 12.4. Mobility in soil

#### Phosphate Buffered Saline, Foil Pouch

Mobility in soil : No additional information available

#### Sodium chloride (7647-14-5)

Surface tension : 73.03 mN/m (23 °C, 14.5 g/l)

Ecology - soil : No (test)data on mobility of the substance available.

#### Disodium phosphate (7558-79-4)

Partition coefficient n-octanol/water (Log Pow) : -5.8 Source: International Chemical Safety Cards

Ecology - soil : No (test)data on mobility of the substance available.

#### Potassium chloride (7447-40-7)

Partition coefficient n-octanol/water (Log Pow) : -0.46 Source: OECD Screening Information Data Set

Ecology - soil : Low potential for adsorption in soil.

#### Sodium phosphate monobasic (7558-80-7)

Mobility in soil : 0.06887 Source: EPISUITE

Partition coefficient n-octanol/water (Log Pow) : -3.96 (Estimated value)

Ecology - soil : No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

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 : Comply with applicable regulations for solid waste disposal. 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

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IMDG	IATA	UNRTDG
<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	
Chemical Control Order for Ozone Depleting Substances	Not applicable	

Others		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Applicable	SODIUM CHLORIDE (7647-14-5) Di-Sodium Hydrogen Phosphate (7558-79-4) Potassium Chloride (7447-40-7) MONOSODIUM DIHYDROGEN PHOSPHATE (7558-80-7)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients Presidential 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	Enzymes permitted for use in food	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4) Sodium phosphate, monobasic (7558-80-7)
	Additives approved only for use as food processing	Potassium chloride (7447-40-7)

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Others		
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	
High Volume Chemicals List	Applicable	Sodium chloride (7647-14-5) Disodium phosphate (7558-79-4) Potassium chloride(Muriate of potash) (7447-40-7)

### 15.2. International regulations

No additional information available

### SECTION 16: Other information

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