Reveal® 2.0 for Salmonella, Complete System

Kit Product

Kit identification

Trade name	:	Reveal® 2.0 for Salmonella, Complete System
Product code	:	9803
Part Number(s)	:	9803|700002825|9804|700002826

Details of the supplier of the Kit safety information sheet

Manufacturer

Neogen Corporation
620 Lesher Place Lansing 48912 Michigan United States of America
T 800.234.5333
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
Revive Medium	Skin Sens. 1, H317
Rappaport-Vassiliadis Broth	Not classified

Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
UN number		
Not regulated for transport		
Proper Shipping Name		
Not regulated	Not regulated	Not regulated
Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Packing group		
Not regulated	Not regulated	Not regulated
Environmental hazards		
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

SECTION 1: Identification

1.1. Product identifier

Trade name : Rappaport-Vassiliadis Broth
Name : Rappaport-Vassiliadis Broth
Product code 9237

1.2. Other means of identification

Synonyms : RV Medium
Part Number(s) : 9237|9715|9716|9729|22015|400000054|400000059|400000633|700002799|700002800|700002804

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

Manufacturer
Neogen Corporation
620 Lesher Place Lansing 48912 Michigan United States of America
T 800.234.5333
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
Magnesium chloride	CAS-No.: 7786-30-3	≥ 25 – < 50	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 25 – < 50	Not classified
Pancreatic digest of soy flour	CAS-No.: 68607-88-5	≥ 15 – < 25	Acute Tox. 4 (Oral), H302
Potassium phosphate monobasic, anhydrous	CAS-No.: 7778-77-0	≥ 5 – < 10	Not classified
Peptones, casein	CAS-No.: 91079-40-2	≥ 1 – < 5	Not classified

Name	Product identifier	%	GHS PH classification
L-(+)-tartaric acid	CAS-No.: 87-69-4	≥ 0.1 – < 0.5	Eye Dam. 1, H318
Malachite green oxalate	CAS-No.: 2437-29-8	≥ 0.1 – < 0.5	Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nicotinic acid	CAS-No.: 59-67-6	< 0.1	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT RE 2, H373
D-Pantothenic acid, hemicalcium salt	CAS-No.: 137-08-6	< 0.1	Not classified
Thiamine hydrochloride	CAS-No.: 67-03-8	< 0.1	Eye Irrit. 2A, H319 STOT SE 3, H335
Pyridoxine hydrochloride	CAS-No.: 58-56-0	< 0.1	Eye Dam. 1, H318
Folic acid	CAS-No.: 59-30-3	< 0.1	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. 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.

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.

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.

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.
Storage temperature : 2 – 30 °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.

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 : Solid
Appearance : Powder.

Color : Gray,light blue
Odor : mild

Odor threshold : No data available
pH : 4.7 – 5.1
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

Potassium phosphate monobasic, anhydrous (7778-77-0)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	> 4640 mg/kg Source: National Library of Medicine
LC50 Inhalation - Rat	> 0.83 mg/l air (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))

L-(+)-tartaric acid (87-69-4)	
LD50 oral rat	2000 – 5000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, 14 day(s), 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))

Malachite green oxalate (2437-29-8)	
LD50 oral rat	275 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg

Magnesium chloride (7786-30-3)	
LD50 oral rat	> 5000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 15 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))

Sodium chloride (7647-14-5)	
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

Pancreatic digest of soy flour (68607-88-5)	
LD50 oral rat	≥ 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Peptones, casein (91079-40-2)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

Nicotinic acid (59-67-6)	
LD50 oral rat	8920 – 15010 mg/kg Source: International Uniform ChemicaL Information Database
LD50 dermal rat	> 2000 mg/kg Source: International Uniform ChemicaL Information Database
LC50 Inhalation - Rat	> 3.8 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

D-Pantothenic acid, hemicalcium salt (137-08-6)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)

Thiamine hydrochloride (67-03-8)	
LD50 oral rat	3710 mg/kg (Rat, Oral)
LD50 oral	13347 mg/kg body weight Animal: mouse, 95% CL: 11527 - 15167

Pyridoxine hydrochloride (58-56-0)	
LD50 oral rat	4000 mg/kg (Rat, Experimental value, Oral)
LD50 dermal	3000 mg/kg body weight (Experimental value)

Skin corrosion/irritation : Not classified.
pH: 4.7 – 5.1

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Thiamine hydrochloride (67-03-8)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Potassium phosphate monobasic, anhydrous (7778-77-0)	
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)

L-(+)-tartaric acid (87-69-4)	
NOAEL (subchronic,oral,animal/male,90 days)	≈ 2460 mg/kg body weight Animal: , Animal sex: male
NOAEL (subchronic,oral,animal/female,90 days)	≈ 3200 mg/kg body weight Animal: , Animal sex: female

Magnesium chloride (7786-30-3)	
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)

Peptones, casein (91079-40-2)	
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: other:

Nicotinic acid (59-67-6)	
NOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Thiamine hydrochloride (67-03-8)	
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), Guideline: other:

Aspiration hazard : Not classified

Rappaport-Vassiliadis Broth	
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.

Potassium phosphate monobasic, anhydrous (7778-77-0)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	12700000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

L-(+)-tartaric acid (87-69-4)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)
LC50 - Fish [2]	> 100 mg/l Test organisms (species):
EC50 - Crustacea [1]	93.313 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]	51.404 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
EC50 96h - Algae [1]	337000 mg/l Source: Ecological Structure Activity Relationships
NOEC chronic fish	43.141 g/l Test organisms (species): Duration: '30 d'
Partition coefficient n-octanol/water (Log Pow)	-1.91 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Malachite green oxalate (2437-29-8)	
LC50 - Fish [1]	0.12 mg/l (96 h, Pimephales promelas)
EC50 - Crustacea [1]	0.29 mg/l (48 h, Daphnia magna)
ErC50 algae	1.08 mg/l
BCF - Fish [1]	0.15 mg/l (24 h, Salmo gairdneri, Residues)

Malachite green oxalate (2437-29-8)	
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)

Magnesium chloride (7786-30-3)	
LC50 - Fish [1]	541 mg/l (US EPA, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Magnesium ion)
LC50 - Fish [2]	2119.3 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	140 mg/l Source: ECOTOX
EC50 72h - Algae [1]	2200 mg/l Source: ECOTOX
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: Quantitative Structure Activity Relation

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'

Pancreatic digest of soy flour (68607-88-5)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna

Nicotinic acid (59-67-6)	
LC50 - Fish [1]	520 mg/l (EU Method C.1, 96 h, Brachydanio rerio, Static system, Experimental value)
EC50 - Crustacea [1]	77 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	89.93 mg/l Source: IUCLID
EC50 72h - Algae [2]	105.666 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	67.956 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	114.786 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	105.67 mg/l (EU Method C.3, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)

D-Pantothenic acid, hemicalcium salt (137-08-6)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Leuciscus idus)
EC50 - Crustacea [1]	> 580 mg/l (48 h, Daphnia magna)
EC50 96h - Algae [1]	757000000 mg/l Source: QSAR
Partition coefficient n-octanol/water (Log Pow)	-3.9

Thiamine hydrochloride (67-03-8)	
LC50 - Fish [1]	> 100 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Source: ECHA
EC50 72h - Algae [1]	> 100 mg/l Source: ECHA

Pyridoxine hydrochloride (58-56-0)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)

Pyridoxine hydrochloride (58-56-0)	
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]	72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	72 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)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

Folic acid (59-30-3)	
LC50 - Fish [1]	1460000 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	57793 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	20719 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

12.2. Persistence and degradability

Rappaport-Vassiliadis Broth	
Persistence and degradability	Not rapidly degradable

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

L-(+)-tartaric acid (87-69-4)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.35 g O_2/g substance
Chemical oxygen demand (COD)	0.42 g O_2/g substance
ThOD	0.53 g O_2/g substance

Malachite green oxalate (2437-29-8)	
Persistence and degradability	Not readily biodegradable in water.

Magnesium chloride (7786-30-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

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

Pancreatic digest of soy flour (68607-88-5)	
Persistence and degradability	Not rapidly degradable

Peptones, casein (91079-40-2)	
Persistence and degradability	Not rapidly degradable

Nicotinic acid (59-67-6)	
Persistence and degradability	Readily biodegradable in water.

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O_2/g substance
Chemical oxygen demand (COD)	1.07 g O_2/g substance

Thiamine hydrochloride (67-03-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O_2/g substance
Chemical oxygen demand (COD)	1.213 g O_2/g substance

Pyridoxine hydrochloride (58-56-0)	
Persistence and degradability	Readily biodegradable in water.

Folic acid (59-30-3)	
Persistence and degradability	Inherently biodegradable.

12.3. Bioaccumulative potential

Rappaport-Vassiliadis Broth	
Bioaccumulative potential	No additional information available

Potassium phosphate monobasic, anhydrous (7778-77-0)	
Bioaccumulative potential	Not bioaccumulative.

L-(+)-tartaric acid (87-69-4)	
Partition coefficient n-octanol/water (Log Pow)	-1.91 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Not bioaccumulative.

Malachite green oxalate (2437-29-8)	
BCF - Fish [1]	0.15 mg/l (24 h, Salmo gairdneri, Residues)
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Magnesium chloride (7786-30-3)	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: Quantitative Structure Activity Relation
Bioaccumulative potential	Not bioaccumulative.

Sodium chloride (7647-14-5)	
Bioaccumulative potential	Not bioaccumulative.

Nicotinic acid (59-67-6)	
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Not bioaccumulative.

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.9

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Bioaccumulative potential	Not bioaccumulative.

Thiamine hydrochloride (67-03-8)	
Bioaccumulative potential	No bioaccumulation data available.

Pyridoxine hydrochloride (58-56-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.

Folic acid (59-30-3)	
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Rappaport-Vassiliadis Broth	
Mobility in soil	No additional information available

Potassium phosphate monobasic, anhydrous (7778-77-0)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

L-(+)-tartaric acid (87-69-4)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-1.91 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

Malachite green oxalate (2437-29-8)	
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)

Magnesium chloride (7786-30-3)	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: Quantitative Structure Activity Relation
Ecology - soil	No (test)data on mobility of the substance 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.

Nicotinic acid (59-67-6)	
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)
Ecology - soil	No (test)data on mobility of the substance available.

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.9

Pyridoxine hydrochloride (58-56-0)	
Surface tension	73.4 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)

Pyridoxine hydrochloride (58-56-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

Folic acid (59-30-3)	
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
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
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
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	MONOPOTASSIUM PHOSPHATE (7778-77-0) BUTANEDIOIC ACID, 2,3-DIHYDROXY- (87-69-4) MALACHITE GREEN OXALATE (2437-29-8) MAGNESIUM CHLORIDE (7786-30-3) SODIUM CHLORIDE (7647-14-5) HYDROLYZED SOY PROTEIN (68607-88-5) PEPTONE BACTERIOLOGICAL OXOID (91079-40-2) 3-Pyridinecarboxylic acid (59-67-6) .beta.-ALANINE, N-(2,4-DIHYDROXY-3,3-DIMETHYL-1-OXOBUTYL)-, CALCIUM SALT (2:1), (R)- (137-08-6) THIAMINE HYDROCHLORIDE (67-03-8) 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-, hydrochloride (58-56-0) FOLIC ACID (59-30-3)
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	Potassium phosphate, monobasic (7778-77-0) Sodium chloride (7647-14-5)
	Additives permitted for use in food in general	Tartaric Acid (L(+)-) (87-69-4)
	Additives approved only for use as food processing	Magnesium chloride (7786-30-3)
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	

Others		
High Volume Chemicals List	Applicable	Tartaric acid (87-69-4) Sodium chloride (7647-14-5)

15.2. International regulations

No additional information available

SECTION 16: Other information

Version	:	3.0
Issue date	:	04/08/2025
Revision date	:	22/06/2026
Supersedes	:	30/09/2025

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.

SECTION 1: Identification

1.1. Product identifier

Trade name : Revive Medium
Name : Revive Medium
Product code 9022

1.2. Other means of identification

Part Number(s) : 9022|9705|9708|400000053|400000559|700002794|700002797

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

Manufacturer
Neogen Corporation
620 Lesher Place Lansing 48912 Michigan United States of America
T 800.234.5333
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 : Sodium pyruvate; Sodium thioglycollate
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

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS PH classification
Peptones, casein	CAS-No.: 91079-40-2	≥ 15 – < 25	Not classified
Disodium phosphate	CAS-No.: 7558-79-4	≥ 15 – < 25	Not classified
Mannitol	CAS-No.: 69-65-8	≥ 10 – < 15	Not classified
Yeast extract	CAS-No.: 8013-01-2	≥ 5 – < 10	Not classified
Potassium phosphate monobasic, anhydrous	CAS-No.: 7778-77-0	≥ 5 – < 10	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 5 – < 10	Not classified
Tween 80	CAS-No.: 9005-65-6	≥ 1 – < 5	Not classified
Pancreatic digest of soy flour	CAS-No.: 68607-88-5	≥ 1 – < 5	Acute Tox. 4 (Oral), H302
Dextrose, anhydrous	CAS-No.: 50-99-7	≥ 1 – < 5	Not classified
Sodium pyruvate	CAS-No.: 113-24-6	≥ 1 – < 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Potassium phosphate dibasic anhydrous	CAS-No.: 7758-11-4	≥ 1 – < 5	Not classified
Chicken Fat (Dried)	-	≥ 0.1 – < 0.5	Not classified
Sodium thioglycollate	CAS-No.: 367-51-1	≥ 0.1 – < 0.5	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 2, H411
Magnesium sulfate heptahydrate	CAS-No.: 10034-99-8	≥ 0.1 – < 0.5	Not classified
Nicotinic acid	CAS-No.: 59-67-6	< 0.1	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT RE 2, H373
D-Pantothenic acid, hemicalcium salt	CAS-No.: 137-08-6	< 0.1	Not classified
Thiamine hydrochloride	CAS-No.: 67-03-8	< 0.1	Eye Irrit. 2A, H319 STOT SE 3, H335
Pyridoxine hydrochloride	CAS-No.: 58-56-0	< 0.1	Eye Dam. 1, H318
Folic acid	CAS-No.: 59-30-3	< 0.1	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 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. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
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.

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.

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.

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. 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 – 30 °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.

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	:	Solid
Appearance	:	Powder.
Color	:	Beige
Odor	:	Characteristic
Odor threshold	:	No data available
pH	:	6.9 – 7.3
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

Peptones, casein (91079-40-2)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

Disodium phosphate (7558-79-4)	
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))

Disodium phosphate (7558-79-4)	
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:

Mannitol (69-65-8)	
LD50 oral rat	13500 mg/kg (Rat, Literature study, Oral)

Potassium phosphate monobasic, anhydrous (7778-77-0)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	> 4640 mg/kg Source: National Library of Medicine
LC50 Inhalation - Rat	> 0.83 mg/l air (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))

Sodium chloride (7647-14-5)	
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

Pancreatic digest of soy flour (68607-88-5)	
LD50 oral rat	≥ 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Dextrose, anhydrous (50-99-7)	
LD50 oral rat	25800 mg/kg (Rat, Literature study, Oral)

Sodium pyruvate (113-24-6)	
LD50 oral	3533 mg/kg body weight (Mouse, Experimental value, Oral)
LD50 dermal rat	> 3000 mg/kg body weight (Rat, Male, Experimental value, Intraperitoneal)

Potassium phosphate dibasic anhydrous (7758-11-4)	
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))

Nicotinic acid (59-67-6)	
LD50 oral rat	8920 – 15010 mg/kg Source: International Uniform ChemicaL Information Database
LD50 dermal rat	> 2000 mg/kg Source: International Uniform ChemicaL Information Database
LC50 Inhalation - Rat	> 3.8 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

D-Pantothenic acid, hemicalcium salt (137-08-6)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)

Thiamine hydrochloride (67-03-8)	
LD50 oral rat	3710 mg/kg (Rat, Oral)

Thiamine hydrochloride (67-03-8)	
LD50 oral	13347 mg/kg body weight Animal: mouse, 95% CL: 11527 - 15167

Pyridoxine hydrochloride (58-56-0)	
LD50 oral rat	4000 mg/kg (Rat, Experimental value, Oral)
LD50 dermal	3000 mg/kg body weight (Experimental value)

Sodium thioglycollate (367-51-1)	
LD50 oral rat	50 – 200 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral, 15 day(s))
LD50 dermal rat	1000 – 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Female, Experimental value, Dermal, 14 day(s))

Magnesium sulfate heptahydrate (10034-99-8)	
LD50 oral rat	> 4000 mg/kg (Rat, Oral)

Skin corrosion/irritation : Not classified.
pH: 6.9 – 7.3

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

Thiamine hydrochloride (67-03-8)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Peptones, casein (91079-40-2)	
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: other:

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 phosphate monobasic, anhydrous (7778-77-0)	
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 phosphate dibasic anhydrous (7758-11-4)	
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)

Nicotinic acid (59-67-6)	
NOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Thiamine hydrochloride (67-03-8)	
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), Guideline: other:

Sodium thioglycollate (367-51-1)	
LOAEL (oral,rat,90 days)	60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEL (dermal,rat/rabbit,90 days)	11.25 mg/kg body weight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (oral,rat,90 days)	20 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	≥ 180 mg/kg body weight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Specific target organ toxicity – repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Revive Medium	
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.

Tween 80 (9005-65-6)	
LC50 - Fish [1]	817.89 mg/l Source: ECOSAR
EC50 96h - Algae [1]	62.072 mg/l Source: ECOSAR

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

Mannitol (69-65-8)	
LC50 - Fish [1]	6920000 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	2460000 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-3.1 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Yeast extract (8013-01-2)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna

Potassium phosphate monobasic, anhydrous (7778-77-0)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	12700000 mg/l Source: Ecological Structure Activity Relationships
ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

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'

Pancreatic digest of soy flour (68607-88-5)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna

Dextrose, anhydrous (50-99-7)	
LC50 - Fish [1]	11300000 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	3880000 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-3.24 (Experimental value)

Sodium pyruvate (113-24-6)	
LC50 - Fish [1]	> 100 mg/l (96 h, Pisces, QSAR, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	2.78 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	94800000 mg/l Source: ECOSAR
ErC50 algae	> 3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	3.95 mg/l Test organisms (species): Duration: '28 d'
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

Potassium phosphate dibasic anhydrous (7758-11-4)	
LC50 - Fish [1]	> 900 mg/l (48 h, Leuciscus idus, Static system)
LC50 - Fish [2]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Read-across, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Nominal concentration)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, Nominal concentration)

Nicotinic acid (59-67-6)	
LC50 - Fish [1]	520 mg/l (EU Method C.1, 96 h, Brachydanio rerio, Static system, Experimental value)
EC50 - Crustacea [1]	77 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	89.93 mg/l Source: IUCLID
EC50 72h - Algae [2]	105.666 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	67.956 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	114.786 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	105.67 mg/l (EU Method C.3, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)

D-Pantothenic acid, hemicalcium salt (137-08-6)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Leuciscus idus)
EC50 - Crustacea [1]	> 580 mg/l (48 h, Daphnia magna)
EC50 96h - Algae [1]	757000000 mg/l Source: QSAR
Partition coefficient n-octanol/water (Log Pow)	-3.9

Thiamine hydrochloride (67-03-8)	
LC50 - Fish [1]	> 100 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Source: ECHA
EC50 72h - Algae [1]	> 100 mg/l Source: ECHA

Pyridoxine hydrochloride (58-56-0)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, 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]	72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	72 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)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

Folic acid (59-30-3)	
LC50 - Fish [1]	1460000 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	57793 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	20719 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

Sodium thioglycollate (367-51-1)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across, GLP)
EC50 - Crustacea [1]	47 mg/l (48 h, Daphnia magna, Experimental value, Locomotor effect)

Sodium thioglycollate (367-51-1)	
EC50 - Other aquatic organisms [1]	47.31 mg/l Test organisms (species):
EC50 72h - Algae [1]	5.07 mg/l Test organisms (species):
ErC50 algae	5.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Read-across, GLP)
NOEC (chronic)	3.9 mg/l Test organisms (species): Duration: '21 d'
Partition coefficient n-octanol/water (Log Pow)	-3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.16 (log Koc, SRC PCKOCWIN v2.0, QSAR)

Magnesium sulfate heptahydrate (10034-99-8)	
LC50 - Fish [1]	15500 mg/l (96 h, Gambusia affinis, Anhydrous form)
EC50 - Crustacea [1]	1700 mg/l (24 h, Daphnia magna, Anhydrous form)
EC50 72h - Algae [1]	2700 mg/l (Scenedesmus subspicatus, Anhydrous form)

12.2. Persistence and degradability

Revive Medium	
Persistence and degradability	Not rapidly degradable

Tween 80 (9005-65-6)	
Persistence and degradability	Biodegradability in water: no data available.

Peptones, casein (91079-40-2)	
Persistence and degradability	Not rapidly degradable

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

Mannitol (69-65-8)	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.15 g O_2/g substance
BOD (% of ThOD)	0.59 (5 day(s), Literature study)

Yeast extract (8013-01-2)	
Persistence and degradability	Not rapidly degradable

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

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

Pancreatic digest of soy flour (68607-88-5)	
Persistence and degradability	Not rapidly degradable

Dextrose, anhydrous (50-99-7)	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.07 g O_2/g substance

Sodium pyruvate (113-24-6)	
Persistence and degradability	Readily biodegradable in water.

Potassium phosphate dibasic anhydrous (7758-11-4)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Nicotinic acid (59-67-6)	
Persistence and degradability	Readily biodegradable in water.

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O_2/g substance
Chemical oxygen demand (COD)	1.07 g O_2/g substance

Thiamine hydrochloride (67-03-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O_2/g substance
Chemical oxygen demand (COD)	1.213 g O_2/g substance

Pyridoxine hydrochloride (58-56-0)	
Persistence and degradability	Readily biodegradable in water.

Folic acid (59-30-3)	
Persistence and degradability	Inherently biodegradable.

Chicken Fat (Dried)	
Persistence and degradability	Not rapidly degradable

Sodium thioglycollate (367-51-1)	
Persistence and degradability	Readily biodegradable in water.

Magnesium sulfate heptahydrate (10034-99-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

Revive Medium	
Bioaccumulative potential	No additional information available

Tween 80 (9005-65-6)	
Bioaccumulative potential	No bioaccumulation data available.

Disodium phosphate (7558-79-4)	
Partition coefficient n-octanol/water (Log Pow)	-5.8 Source: International Chemical Safety Cards
Bioaccumulative potential	Not bioaccumulative.
Mannitol (69-65-8)	
Partition coefficient n-octanol/water (Log Pow)	-3.1 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Not bioaccumulative.
Potassium phosphate monobasic, anhydrous (7778-77-0)	
Bioaccumulative potential	Not bioaccumulative.
Sodium chloride (7647-14-5)	
Bioaccumulative potential	Not bioaccumulative.
Dextrose, anhydrous (50-99-7)	
Partition coefficient n-octanol/water (Log Pow)	-3.24 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.
Sodium pyruvate (113-24-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
Potassium phosphate dibasic anhydrous (7758-11-4)	
Bioaccumulative potential	Not bioaccumulative.
Nicotinic acid (59-67-6)	
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Not bioaccumulative.
D-Pantothenic acid, hemicalcium salt (137-08-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.9
Bioaccumulative potential	Not bioaccumulative.
Thiamine hydrochloride (67-03-8)	
Bioaccumulative potential	No bioaccumulation data available.
Pyridoxine hydrochloride (58-56-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
Folic acid (59-30-3)	
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
Sodium thioglycollate (367-51-1)	
Partition coefficient n-octanol/water (Log Pow)	-3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22 °C)

Sodium thioglycollate (367-51-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.16 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Bioaccumulative potential	Not bioaccumulative.

Magnesium sulfate heptahydrate (10034-99-8)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

Revive Medium	
Mobility in soil	No additional information 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.

Mannitol (69-65-8)	
Mobility in soil	5 Source: National Library of Medicine/Hazardous Substances Data Bank
Partition coefficient n-octanol/water (Log Pow)	-3.1 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

Potassium phosphate monobasic, anhydrous (7778-77-0)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance 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.

Dextrose, anhydrous (50-99-7)	
Partition coefficient n-octanol/water (Log Pow)	-3.24 (Experimental value)

Sodium pyruvate (113-24-6)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

Potassium phosphate dibasic anhydrous (7758-11-4)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

Nicotinic acid (59-67-6)	
Partition coefficient n-octanol/water (Log Pow)	-2.34 – -0.6 (Practical experience/observation, EU Method A.8: Partition Coefficient)
Ecology - soil	No (test)data on mobility of the substance available.

D-Pantothenic acid, hemicalcium salt (137-08-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.9

Pyridoxine hydrochloride (58-56-0)	
Surface tension	73.4 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Pow)	-0.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

Folic acid (59-30-3)	
Partition coefficient n-octanol/water (Log Pow)	-2.41 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

Sodium thioglycollate (367-51-1)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.16 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile 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.
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
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
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	POLYETHYLENE GLYCOL SORBITAN MONOOLEATE (9005-65-6) PEPTONE BACTERIOLOGICAL OXOID (91079-40-2) Di-Sodium Hydrogen Phosphate (7558-79-4) D-(-)-Mannitol (69-65-8) EXTRACT, YEAST (8013-01-2) MONOPOTASSIUM PHOSPHATE (7778-77-0) SODIUM CHLORIDE (7647-14-5) HYDROLYZED SOY PROTEIN (68607-88-5) D-Glucose (50-99-7) Propanoic acid, 2-oxo-, sodium salt (113-24-6) DIPOTASSIUM HYDROGEN PHOSPHATE (7758-11-4) 3-Pyridinecarboxylic acid (59-67-6) .beta.-ALANINE, N-(2,4-DIHYDROXY-3,3-DIMETHYL-1-OXOBUTYL)-, CALCIUM SALT (2:1), (R)- (137-08-6) THIAMINE HYDROCHLORIDE (67-03-8) 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-, hydrochloride (58-56-0) FOLIC ACID (59-30-3) Sodium Thioglycolate (367-51-1) MAGNESIUM SULFATE HEPTAHYDRATE (10034-99-8)
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	Disodium phosphate (7558-79-4) Potassium phosphate, monobasic (7778-77-0) Sodium chloride (7647-14-5) Potassium phosphate, dibasic (7758-11-4)
	Additives approved only for use as food processing	Mannitol (69-65-8)
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	
High Volume Chemicals List	Applicable	Disodium phosphate (7558-79-4) Sodium chloride (7647-14-5) Dipotassium phosphate Anhyd. (7758-11-4)

15.2. International regulations

No additional information available

SECTION 16: Other information

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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.