



Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual
Issue date: 04/06/2026 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Trade name : Neogen® Rappaport-Vassiliadis R10 Agar
Name : Neogen Rappaport-Vassiliadis R10 Agar
Product code BP0288500

1.2. Other means of identification

Part Number(s) : BP0288500|700002154

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals, Scientific research and development

1.4. Supplier's details

Manufacturer

Neogen Corporation
620 Leshar Place Lansing 48912 Michigan United States of America
T 800.234.5333
sds@neogen.com - <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	≥ 50 – < 75	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 25 – < 50	Not classified
Peptones, casein	CAS-No.: 91079-40-2	≥ 15 – < 25	Not classified
Potassium phosphate monobasic, anhydrous	CAS-No.: 7778-77-0	≥ 5 – < 10	Not classified

Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

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

Name	Product identifier	%	GHS PH classification
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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
Self protection of the first-aiders	: 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 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: Fire-fighting 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. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: 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.
----------------------	---

Neogen® Rappaport-Vassiliadis R10 Agar

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.

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 for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Neogen® Rappaport-Vassiliadis R10 Agar

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	: Solid
Appearance	: Powder.
Colour	: Green
Odour	: Characteristic, Slight
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=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
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive 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

Neogen® Rappaport-Vassiliadis R10 Agar

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

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

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

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

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

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
STOT - single exposure	: Not classified
STOT - repeated exposure	: Not classified

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

Magnesium chloride (7786-30-3)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

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

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

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
----------------------------	--

Aspiration hazard : Not classified

Neogen® Rappaport-Vassiliadis R10 Agar

Viscosity, kinematic	Not applicable
----------------------	----------------

SECTION 12: Ecological information

12.1. Ecotoxicity

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

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

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

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'

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)
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)

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)

Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

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

12.2. Persistence and degradability

Neogen® Rappaport-Vassiliadis R10 Agar	
Persistence and degradability	Not rapidly degradable
Peptones, casein (91079-40-2)	
Persistence and degradability	Not rapidly degradable
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)
Malachite green oxalate (2437-29-8)	
Persistence and degradability	Not readily biodegradable in water.
Potassium phosphate monobasic, anhydrous (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Neogen® Rappaport-Vassiliadis R10 Agar	
Bioaccumulative potential	No additional information available
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.
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).
Potassium phosphate monobasic, anhydrous (7778-77-0)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Neogen® Rappaport-Vassiliadis R10 Agar	
Mobility in soil	No additional information available
Magnesium chloride (7786-30-3)	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: Quantitative Structure Activity Relation

Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

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

Magnesium chloride (7786-30-3)	
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.
Malachite green oxalate (2437-29-8)	
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)
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.

12.5. Other adverse affects

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

SECTION 13: Disposal consideration

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

Neogen® Rappaport-Vassiliadis R10 Agar

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	PEPTONE BACTERIOLOGICAL OXOID (91079-40-2) MAGNESIUM CHLORIDE (7786-30-3) SODIUM CHLORIDE (7647-14-5) MALACHITE GREEN OXALATE (2437-29-8) MONOPOTASSIUM PHOSPHATE (7778-77-0)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients (Decree No. 1866)	Not applicable	
Comprehensive Dangerous Drugs Act of 2002	Not applicable	
Fertilizers and Pesticides Regulation (Decree No. 1144)	Not applicable	
Food Additives Regulation	Additives approved only for use as food processing	Magnesium chloride (7786-30-3)
	Enzymes permitted for use in food	Sodium chloride (7647-14-5) Potassium phosphate, monobasic (7778-77-0)
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)

15.2. International regulations

No additional information available

SECTION 16: Other information

Version : 1.0

Neogen® Rappaport-Vassiliadis R10 Agar

Safety Data Sheet

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

Issue date : 04/06/2026

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.