DRBC Agar (ISO)

Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual
Issue date: 20/08/2025 Revision date: 29/10/2026 Supersedes: 19/02/2026 Version: 5.0

SECTION 1: Identification

1.1. Product identifier

Trade name : DRBC Agar (ISO)
Name : DRBC Agar (ISO)
Product code NCM0082

1.2. Other means of identification

Part Number(s) : NCM0082|700004470|NCM0082A|700004471|NCM0082B|700004472|NCM0082C|700004473|NCM0082D

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Scientific research and development,Laboratory chemicals

1.4. Supplier's details

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

Carcinogenicity, Category 1B H350

2.2. Label elements

Hazard pictograms (GHS PH) :



Signal word (GHS PH) : Danger
Contains : Chloramphenicol
Hazard statements (GHS PH) : H350 - May cause cancer
Precautionary statements (GHS PH) : P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
P318 - IF exposed or concerned, get medical advice.
P405 - Store locked up.
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
Agar, powdered	CAS-No.: 9002-18-0	≥ 25 – < 50	Not classified
Dextrose, anhydrous	CAS-No.: 50-99-7	≥ 25 – < 50	Not classified
Enzymatic digest of animal and plant tissue	-	≥ 5 – < 10	Not classified
Enzymatic digest of animal and plant tissue	-	≥ 5 – < 10	Not classified
Potassium phosphate monobasic, anhydrous	CAS-No.: 7778-77-0	≥ 1 – < 5	Not classified
Growth promoter	-	≥ 1 – < 5	Not classified
Growth promoter	-	≥ 0.1 – < 0.5	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335
Chloramphenicol	CAS-No.: 56-75-7	≥ 0.1 – < 0.5	Carc. 1B, H350 Repr. 2, H361d
Rose bengal sodium salt	CAS-No.: 632-69-9	≥ 0.1 – < 0.5	Not classified
2,6-Dichloro-4-nitroaniline	CAS-No.: 99-30-9	< 0.1	Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Chronic 2, H411
Growth promoter	-	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of first aid measures

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

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

Symptoms/effects after inhalation : None under normal conditions. 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.
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

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. Notify authorities if product enters sewers or public waters.

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. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
Hygiene measures : Separate working clothes from town clothes. Launder separately. 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 : Store locked up.
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 for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

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	:	Beige,Pink
Odour	:	Characteristic
Odour threshold	:	No data available
pH	:	5.4 – 5.8
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	:	Soluble in water.
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

SECTION 11: Toxicological information

11.1. Acute toxicity

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

Agar, powdered (9002-18-0)	
LD50 oral rat	11000 mg/kg (Rat, Oral)

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

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))

Growth promoter	
LD50 oral rat	> 4000 mg/kg (Rat, Oral)

Chloramphenicol (56-75-7)	
LD50 oral	2500 mg/kg

2,6-Dichloro-4-nitroaniline (99-30-9)	
LD50 oral rat	2400 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal rabbit	> 2000 mg/kg Source: Corporate Solution From Thomson Micromedex
LC50 Inhalation - Rat	> 5.4 mg/kg Source: Corporate Solution From Thomson Micromedex

Growth promoter	
LD50 oral rat	482 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	300 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	1 – 5 mg/l Source: OSHRI GLP toxicity test

Skin corrosion/irritation : Not classified.
pH: 5.4 – 5.8

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Chloramphenicol (56-75-7)	
IARC group	2A - Probably carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified

STOT - single exposure : Not classified

Growth promoter	
STOT - single exposure	May cause respiratory irritation.

STOT - repeated exposure : Not classified

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)

2,6-Dichloro-4-nitroaniline (99-30-9)	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Growth promoter	
NOAEL (oral, rat, 90 days)	16.3 – 17.3 mg/kg bw/day
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

DRBC Agar (ISO)	
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.

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)

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)

Growth promoter	
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)

Chloramphenicol (56-75-7)	
LC50 - Fish [1]	10 mg/l
ErC50 algae	0.78 mg/l
Partition coefficient n-octanol/water (Log Pow)	1.14 Source: HSDB

Rose bengal sodium salt (632-69-9)	
Partition coefficient n-octanol/water (Log Pow)	6.58 Source: Ecological Structure Activity Relationships

2,6-Dichloro-4-nitroaniline (99-30-9)	
LC50 - Fish [1]	4.1 mg/l (96 h, Pisces, Literature study)
EC50 - Crustacea [1]	2.07 mg/l Source: The ECOTOXicology database
Partition coefficient n-octanol/water (Log Pow)	2.8 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.26 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Growth promoter	
LC50 - Fish [1]	38.4 µg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Read-across)
EC50 - Crustacea [1]	7 – 1213 µg/l
EC50 72h - Algae [1]	0.01 – 0.28 mg/l (Selenastrum capricornutum, Growth)
EC50 72h - Algae [2]	18 – 46 µg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
NOEC chronic fish	2.2 – 45 µg/l
NOEC chronic crustacea	4 – 31 µg/l
NOEC chronic algae	0.013 mg/l
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: EPISUITE

12.2. Persistence and degredability

DRBC Agar (ISO)	
Persistence and degradability	Not rapidly degradable

Agar, powdered (9002-18-0)	
Persistence and degradability	Biodegradability in water: no data available.

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

Enzymatic digest of animal and plant tissue	
Persistence and degradability	Not rapidly degradable

Enzymatic digest of animal and plant tissue	
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)

Growth promoter	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Growth promoter	
Persistence and degradability	Biodegradability in water: no data available.

Chloramphenicol (56-75-7)	
Persistence and degradability	Biodegradable in water.

Rose bengal sodium salt (632-69-9)	
Persistence and degradability	Not rapidly degradable

2,6-Dichloro-4-nitroaniline (99-30-9)	
Persistence and degradability	Biodegradability in soil: no data available, Not readily biodegradable in water.

Growth promoter	
Persistence and degradability	Biodegradability: not applicable.
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

DRBC Agar (ISO)	
Bioaccumulative potential	No additional information available

Agar, powdered (9002-18-0)	
Bioaccumulative potential	No bioaccumulation data available.

Dextrose, anhydrous (50-99-7)	
Partition coefficient n-octanol/water (Log Pow)	-3.24 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

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

Growth promoter	
Bioaccumulative potential	No bioaccumulation data available.

Growth promoter	
Bioaccumulative potential	No bioaccumulation data available.

Chloramphenicol (56-75-7)	
Partition coefficient n-octanol/water (Log Pow)	1.14 Source: HSDB
Bioaccumulative potential	No bioaccumulation data available.

Rose bengal sodium salt (632-69-9)	
Partition coefficient n-octanol/water (Log Pow)	6.58 Source: Ecological Structure Activity Relationships

2,6-Dichloro-4-nitroaniline (99-30-9)	
Partition coefficient n-octanol/water (Log Pow)	2.8 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.26 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Growth promoter	
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: EPISUITE
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4. Mobility in soil

DRBC Agar (ISO)	
Mobility in soil	No additional information available

Agar, powdered (9002-18-0)	
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)

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.

Chloramphenicol (56-75-7)	
Partition coefficient n-octanol/water (Log Pow)	1.14 Source: HSDB

Rose bengal sodium salt (632-69-9)	
Mobility in soil	7495000 Source: Quantitative Structure Activity Relation
Partition coefficient n-octanol/water (Log Pow)	6.58 Source: Ecological Structure Activity Relationships

2,6-Dichloro-4-nitroaniline (99-30-9)	
Partition coefficient n-octanol/water (Log Pow)	2.8 (Literature)

2,6-Dichloro-4-nitroaniline (99-30-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.26 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.

Growth promoter	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: EPISUITE
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

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	AGAR (9002-18-0) D-Glucose (50-99-7) MONOPOTASSIUM PHOSPHATE (7778-77-0) Growth promoter Acetamide, 2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]- (56-75-7) Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 4,5,6,7-tetrachloro-3',6'-dihydroxy-2',4',5',7'-tetraiodo-, disodium salt (632-69-9) ANILINE, 2,6-DICHLORO-4-NITRO- (99-30-9)
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	Agar, powdered (9002-18-0)
	Enzymes permitted for use in food	Potassium phosphate, monobasic (7778-77-0) Growth promoter
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	:	5.0
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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.