# Violet Red Bile Agar (VRBA)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)
Issue date: 11/12/2024 Revision date: 10/29/2026 Supersedes: 10/8/2025 Version: 3.0

## SECTION 1 Identification

### 1.1. Product identifier

Product form : Mixture
Trade name : Violet Red Bile Agar (VRBA)
Product code : NCM0025

### 1.2. Other means of identification

Part Number(s) : NCM0025|400000751|700003032|NCM0025A|700003033|NCM0025B|700003034|NCM0025C

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

Use of the substance/mixture : DCM Agar,Laboratory chemicals,Scientific research and development
Recommended use : Scientific research and development,Laboratory chemicals

### 1.4. Supplier's details

**Manufacturer**
Neogen Corporation
620 Lesher Place
Lansing, Michigan 48912
United States of America
T 800.234.5333
sds@neogen.com - https://www.neogen.com/

### 1.5. Emergency phone 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 Hazard Identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

Combustible dust — May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.].

Full text of H statements : see section 16

### 2.2. Label elements

**GHS US labeling**

Signal word (GHS US) : Warning
Hazard statements (GHS US) : CODU - May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

30.04% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
30.04% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| Sodium deoxycholate | CAS-No.: 302-95-4 | 1 – 5 | Acute Tox. 4 (Oral), H302<br>STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

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

### 4.2. Most important symptoms/effects, 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 immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

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

### 5.2. Specific hazards arising from the chemical

Fire hazard : May form combustible dust concentrations in air.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions 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. |

**For non-emergency personnel**

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

**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. |
| Environmental precautions | : | Avoid release to the environment. |

### 6.2. Methods and materials 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. |
| Other information | : | Dispose of materials or solid residues at an authorized site. |

For further information refer to section 13.

## 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. Avoid dust formation. |
| 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 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

### 8.2. Appropriate engineering controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Ensure good ventilation of the work station. |
| Environmental exposure controls | : | Avoid release to the environment. |

### 8.3. Individual protection measures, such as 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):**



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | Powder. |
| Color | : | Light red |
| Odor | : | Characteristic |
| Odor threshold | : | No data available |
| pH | : | 7.2 – 7.6 |
| Melting point | : | No data available |
| Freezing point | : | Not applicable |
| Boiling point | : | No data available |
| Flash point | : | Not applicable |
| Flammability (solid, gas) | : | 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 Pow) | : | No data available |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | Not applicable |
| Explosion limits | : | Not applicable |
| Particle characteristics | : | No data available |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

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

| Violet Red Bile Agar (VRBA) | |
|---|---|
| Unknown acute toxicity (GHS US) | 30.04% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>30.04% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

| Sodium deoxycholate (302-95-4) | |
|---|---|
| LD50 oral rat | 1370 mg/kg (Rat, Oral) |
| ATE US (oral) | 1370 mg/kg body weight |

Skin corrosion/irritation : Not classified
pH: 7.2 – 7.6

| Sodium deoxycholate (302-95-4) | |
|---|---|
| pH | 7.5 – 9 (2 %) |

Serious eye damage/irritation : Not classified
pH: 7.2 – 7.6

| Sodium deoxycholate (302-95-4) | |
|---|---|
| pH | 7.5 – 9 (2 %) |

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

| Sodium deoxycholate (302-95-4) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

| Violet Red Bile Agar (VRBA) | |
|---|---|
| Viscosity, kinematic | Not applicable |

| Sodium deoxycholate (302-95-4) | |
|---|---|
| Viscosity, kinematic | Not applicable (solid) |

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.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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

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

| Sodium deoxycholate (302-95-4) | |
|---|---|
| LC50 - Fish [1] | 1592.185 mg/l Source: ECOSAR |
| EC50 96h - Algae [1] | 968.709 mg/l Source: ECOSAR |

### 12.2. Persistence and degradability

| Violet Red Bile Agar (VRBA) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Sodium deoxycholate (302-95-4) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. |

### 12.3. Bioaccumulative potential

| Sodium deoxycholate (302-95-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.24 (Estimated value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4. Mobility in soil

| Sodium deoxycholate (302-95-4) | |
|---|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

### 12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
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.
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.

## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|---|---|---|---|
| **14.1. UN number** | | | |
| Not regulated for transport | | | |
| **14.2. Proper Shipping Name** | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| **14.3. Transport hazard class(es)** | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| **14.4. Packing group** | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| **14.5. Environmental hazards** | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | |

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

**DOT**
Not regulated

**TDG**
Not regulated

**IMDG**
Not regulated

**IATA**
Not regulated

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are exempt or present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)
Revision date : 10/29/2026
Issue date : 11/12/2024

| Full text of hazard classes and H-statements | |
|---|---|
| H302 | Harmful if swallowed |
| H335 | May cause respiratory irritation |

Safety Data Sheet (SDS), USA

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.