

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : ANSR® for Campylobacter Enrichment Broth
Type of product : Food Safety -- [Food Safety]
Product code : 9818

1.2. Other means of identification

Part Number(s) : 9818|700002844

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory chemicals, Scientific research and development

1.4. Supplier's details

Manufacturer

Neogen Corporation
620 Leshar 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

Classification (GHS CA)

| | | |
|---|------|--|
| Serious eye damage/eye irritation, Category 1 | H318 | Causes serious eye damage. |
| Skin sensitization, Category 1B | H317 | May cause an allergic skin reaction. |
| Reproductive toxicity, Category 1B | H360 | May damage fertility or the unborn child. |
| Combustible Dust | | May form combustible dust concentrations in air. |

Full text of H statements : see section 16

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) : 

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H Comb Dust - May form combustible dust concentrations in air
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H360 - May damage fertility or the unborn child

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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, and hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice or attention.
P310 - Immediately call a POISON CENTER or a doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|------------------|---|--------------------|-----------|-------------------------|
| Sodium carbonate | Sodium Carbonate anhydrous soda / ash / bisodium carbonate / calcined soda(=sodium carbonate) / carbonic acid sodium salt / carbonic-acid-disodium-salt- / CASWELL NO. 752 / chrysol carbonate / chrysol carbonate (=sodium carbonate) / natural ash / Na-X / snowlite 1 / soda (=sodium carbonate) / soda ash / soda, crystals / sodium carbonate / sodium carbonate, anhydrous / sodium carbonate, anhydrous ASTM D458 / sodium carbonate, anhydrous GE materials D4D5 / sodium carbonate, anhydrous powder / sodium carbonate, crude / sodium carbonate, granular / Solvay soda / synthetic ash / washing soda (=sodium carbonate) | CAS-No.: 497-19-8 | ≥ 1 – < 5 | Eye Irrit. 2, H319 |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|----------------------|---|--------------------|-----------|---|
| glucosidase, β- | 2-Oxoglutaric acid ; α-Ketoglutaric acid 2-ketoglutaric acid / 2-oxo-1,5-pentanedioic acid / 2-oxoglutaric acid / 2-oxopentanedioic acid / alpha-ketoglutaric acid / pentanedioic acid, 2-oxo- | CAS-No.: 328-50-7 | ≥ 1 – < 5 | Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Sodium metabisulfite | Disodium disulphite corexit 9186 / disodium disulfite / disodium disulphite / disodium metabisulfite / disodium pyrosulfite / disodium pyrosulphite / disulfurous acid, disodium salt / E223 / pyrosulfurous acid disodium salt / pyrosulfurous acid sodium salt / sodium acid sulfite / sodium disulfite / sodium metabisulfite / sodium metabisulphite / sodium metasulfite / sodium pyrosulfite / sodium pyrosulphite / Uantox SMBS | CAS-No.: 7681-57-4 | ≥ 1 – < 5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Comb. Dust |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|-----------------|---|--------------------|-----------|---|
| Sodium pyruvate | 2-Oxopropanoic acid sodium salt ; Sodium pyruvate 2-oxo-propanoic acid, sodium salt / acetylformic acid, sodium salt / propanoic acid, 2-oxo-, sodium salt / pyruvic acid sodium salt / sodium pyruvate | CAS-No.: 113-24-6 | ≥ 1 – < 5 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| | | | | |
|---------------|--|------------------|---------------|---|
| Cycloheximide | <p>Cycloheximide [1S-[1-alpha(S*),3alpha,5beta]]-4-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione / 2,6-piperidinedione, 4-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]-, [1S-[1alpha(S*),3alpha,5beta]]- / 3-(2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl)glutarimide / 3-(2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl)pentanedioic acid imide / 3-(2R)-2-[(1S,3S)-3,5-dimethyl-2-oxocyclohexyl]-2-hydroxyethylglutarimide / 3-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide / 4-(2R)-2-[(1S,3S,5S)-(3,5-dimethyl-2-oxocyclohexyl)]-2-hydroxyethylpiperidine-2,6-dione / 4-[2-(3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione / 4-{}{(2R)-2-[(1S,3S,5S)-3,5-dimethyl-2-oxocyclohexyl]-2-hydroxyethyl}}piperidine-2,6-dione / acti-aid / actidion / actidione / actidione BR / actidione PM / acti-dione PM / actidione TGF /</p> | CAS-No.: 66-81-9 | ≥ 0.1 – < 0.5 | Acute Tox. 2 (Oral), H300 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411 |
|---------------|--|------------------|---------------|---|

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|------|--|--------------------|---|-------------------------|
| | acti-dione TGF / actidone / actispray / aktidion / beta-(2- (3,5-dimethyl-2- oxocyclohexyl)-2- hydroxyethyl)gluta rimide / cicloheximide / cycloheximide / hizarocin / kaken / naramycin / naramycin A / neocycloheximide / NSC-185 / U- 4527 | | | |

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 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| Personal protection for first-aid responders. | : First aid workers will be equipped with suitable personal protective equipment. |

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 | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : None under normal conditions. |
| Chronic symptoms | : May damage fertility or the unborn child. |

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 extinguishing media

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

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

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 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.
Environmental precautions : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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. Notify authorities if product enters sewers or public waters.
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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid dust formation.
Hygiene measures : Separate working clothes from town clothes. Launder separately. 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 : Store locked up.
Storage temperature : 15 – 30 °C
Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| Sodium metabisulfite (7681-57-4) | |
|---|----------------------|
| Canada (Alberta) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Sodium metabisulfite (7681-57-4) | |
|--|---|
| Notations and remarks | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. |
| Regulatory reference | Alberta Regulation 191/2021 |
| Canada (Quebec) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| VEMP (OEL TWAEV) | 5 mg/m ³ |
| Regulatory reference | S-2.1, r. 13 - Regulation respecting occupational health and safety |
| Canada (British Columbia) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2025 |
| Canada (New Brunswick) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Notations and remarks | URT irr |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2025 |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2025 |
| Canada (Nunavut) - Occupational Exposure Limits | |
| Local name | Sodium metabisulphite |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Regulatory reference | Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| Local name | Sodium metabisulphite |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Sodium metabisulfite (7681-57-4) | |
|--|---|
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Regulatory reference | Occupation Health and Safety Regulations R-039-2015 (R-090-2024) |
| Canada (Ontario) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWAEV | 5 mg/m ³ |
| Regulatory reference | Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| Local name | Sodium metabisulfite |
| OEL TWA | 5 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2025 |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| Local name | Sodium metabisulphite |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Regulatory reference | The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10 |

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 (PPE)

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.

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Color | : Beige Light brown |
| Odor | : Odorless Slight |
| Odor threshold | : No data available |
| pH | : 6.7 – 7.1 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Relative evaporation rate (ether=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 (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 |
| 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

| | |
|------------------------------------|--|
| 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 | : Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition. |
| Incompatible materials | : No additional information available |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time: | : No additional information available |

SECTION 11 Toxicological information

11.1. Likely routes of exposure

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

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| ANSR® for Campylobacter Enrichment Broth | |
|---|---|
| Unknown acute toxicity (GHS CA) | 17.47% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 24.1% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 25.85% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| Sodium carbonate (497-19-8) | |
| LD50 oral rat | 2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 oral | 2800 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal | 2500 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 1.2 mg/l/4h |
| ATE CA (oral) | 2800 mg/kg body weight |
| ATE CA (Dermal) | 2500 mg/kg body weight |
| ATE CA (dust,mist) | 1.2 mg/l/4h |
| glucosidase, β- (328-50-7) | |
| LD50 oral rat | 5000 – 10000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |
| ATE CA (oral) | 7500 mg/kg body weight |
| Sodium metabisulfite (7681-57-4) | |
| LD50 oral rat | 1540 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 oral | 1540 mg/kg |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s)) |
| LD50 dermal | 2500 mg/kg |
| LC50 Inhalation - Rat | > 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.5 mg/l Source: ECHA |
| ATE CA (oral) | 1540 mg/kg body weight |
| ATE CA (Dermal) | 2500 mg/kg body weight |
| 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) |
| ATE CA (oral) | 3533 mg/kg body weight |
| Cycloheximide (66-81-9) | |
| LD50 oral rat | 2 mg/kg (Rat, Literature study, Oral) |
| LD50 oral | 2 mg/kg |
| ATE CA (oral) | 2 mg/kg body weight |

Skin corrosion/irritation : Not classified.
pH: 6.7 – 7.1

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| pH | 4.5 (25 %) |
| Sodium pyruvate (113-24-6) | |
| pH | 7 (10 %) |
| Cycloheximide (66-81-9) | |
| pH | 4 – 5 (2 %) |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 6.7 – 7.1 |
| Sodium metabisulfite (7681-57-4) | |
| pH | 4.5 (25 %) |
| Sodium pyruvate (113-24-6) | |
| pH | 7 (10 %) |
| Cycloheximide (66-81-9) | |
| pH | 4 – 5 (2 %) |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : May damage fertility or the unborn child. |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| ANSR® for Campylobacter Enrichment Broth | |
| Viscosity, kinematic | Not applicable |
| Sodium carbonate (497-19-8) | |
| Viscosity, kinematic | Not applicable (solid) |
| Sodium metabisulfite (7681-57-4) | |
| Viscosity, kinematic | Not applicable (solid) |
| Sodium pyruvate (113-24-6) | |
| Viscosity, kinematic | Not applicable (solid) |
| Cycloheximide (66-81-9) | |
| 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 | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : None under normal conditions. |
| Chronic symptoms | : May damage fertility or the unborn child. |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 12 Ecological information

12.1. Toxicity

| | |
|---|--|
| 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 carbonate (497-19-8) | |
|------------------------------------|---|
| LC50 - Fish [1] | 300 mg/l (96 h, <i>Lepomis macrochirus</i> , Static system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 200 – 227 mg/l (48 h, <i>Ceriodaphnia</i> sp., Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 - Crustacea [2] | 200 – 227 mg/l Test organisms (species): <i>Ceriodaphnia</i> sp. |
| EC50 96h - Algae [1] | 242 mg/l Source: ECOTOX |

| glucosidase, β- (328-50-7) | |
|--|---|
| LC50 - Fish [1] | 236000 mg/l Source: Ecological Structure Activity Relationships |
| EC50 - Crustacea [1] | 70.7 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Semi-static system, Fresh water, Experimental value) |
| EC50 - Crustacea [2] | > 100 mg/l Test organisms (species): <i>Daphnia magna</i> |
| EC50 72h - Algae [1] | 59.3 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>) |
| EC50 72h - Algae [2] | > 102 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>) |

| Sodium metabisulfite (7681-57-4) | |
|---|--|
| LC50 - Fish [1] | 316 mg/l (DIN 38412-15, 96 h, <i>Leuciscus idus</i> , Static system, Fresh water, Read-across, Nominal concentration) |
| EC50 72h - Algae [1] | 43.8 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>) |
| NOEC chronic fish | \geq 316 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>) Duration: '34 d' |
| NOEC (chronic) | > 10 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d' |

| 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: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 algae | > 3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, GLP) |
| EC50 72h - Algae [1] | 2.78 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>) |
| EC50 96h - Algae [1] | 94800000 mg/l Source: ECOSAR |
| NOEC (chronic) | 3.95 mg/l Test organisms (species): Duration: '28 d' |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Cycloheximide (66-81-9) | |
|-------------------------|--|
| LC50 - Fish [1] | 1.6 mg/l (48 h, Oryzias latipes, Literature study) |
| EC50 72h - Algae [1] | 2.215 mg/l |

12.2. Persistence and degradability

| ANSR® for Campylobacter Enrichment Broth | |
|--|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Sodium carbonate (497-19-8) | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| glucosidase, β - (328-50-7) | |
|-----------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| Sodium metabisulfite (7681-57-4) | |
|----------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
| Chemical oxygen demand (COD) | 0.15 g O ₂ /g substance |

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

| Cycloheximide (66-81-9) | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| Sodium carbonate (497-19-8) | |
|---|--|
| Bioaccumulative potential | Not bioaccumulative. |
| Partition coefficient n-octanol/water (Log Pow) | -6.19 Source: Quantitative Structure Activity Relation |

| glucosidase, β - (328-50-7) | |
|---|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
| Partition coefficient n-octanol/water (Log Pow) | -2.08 (25 °C) |

| Sodium metabisulfite (7681-57-4) | |
|---|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
| Partition coefficient n-octanol/water (Log Pow) | -3.7 Source: ICSC |

| Sodium pyruvate (113-24-6) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |
| Partition coefficient n-octanol/water (Log Pow) | -3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |

| Cycloheximide (66-81-9) | |
|-----------------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| BCF - Other aquatic organisms [1] | 3.2 l/kg (BCFBAF v3.01, Estimated value, Fresh weight) |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| Cycloheximide (66-81-9) | |
|---|---------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.55 (Experimental value) |

12.4. Mobility in soil

| Sodium carbonate (497-19-8) | |
|-----------------------------|---------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for adsorption in soil. |

| Sodium metabisulfite (7681-57-4) | |
|----------------------------------|---|
| Surface tension | 70.7 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions) |
| Ecology - soil | No (test)data on mobility of the substance available. |

| Sodium pyruvate (113-24-6) | |
|----------------------------|---|
| Surface tension | No data available in the literature |
| Ecology - soil | No (test)data on mobility of the substance available. |

| Cycloheximide (66-81-9) | |
|--|--|
| Surface tension | No data available in the literature |
| Ecology - soil | Highly mobile in soil. |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |

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. |
| Seawage 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. |

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG | DOT | IMDG | IATA |
|---|---------------|---------------|---------------|
| 14.1. UN Number | | | |
| Not regulated for transport | | | |
| 14.2. UN 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 |

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

| TDG | DOT | IMDG | IATA |
|---|---------------|---------------|---------------|
| 14.4. Packing group, if applicable | | | |
| 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. Special precautions for user

TDG

Not regulated

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Sodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

glucosidase, β - (328-50-7)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

Sodium metabisulfite (7681-57-4)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

Sodium pyruvate (113-24-6)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

Cycloheximide (66-81-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

ANSR® for Campylobacter Enrichment Broth

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Sodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

glucosidase, β - (328-50-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Sodium metabisulfite (7681-57-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Sodium pyruvate (113-24-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Cycloheximide (66-81-9)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16 Other Information

Issue date : 08-28-2025

Full text of hazard classes and H-statements:

| | |
|------|---|
| H300 | Fatal if swallowed |
| H302 | Harmful if swallowed |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H341 | Suspected of causing genetic defects. |
| H360 | May damage fertility or the unborn child |
| H402 | Harmful to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet (SDS), Canada

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.