

### SECTION 1 Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : Perfringens Agar Base (TSC)  
Type of product : Food Safety -- [Food Safety]  
Product code : NCM0077

#### 1.2. Other means of identification

Part Number(s) : NCM0077|700004464|700004465|700004466

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

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

#### 1.4. Supplier's details

Neogen Corporation  
620 Leshler Place  
Lansing, Michigan 48912  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto: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 2 H319 Causes serious eye irritation.  
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) : Warning

Hazard statements (GHS CA) : H319 - Causes serious eye irritation

Precautionary statements (GHS CA) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice or attention.

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### 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

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Ferric ammonium citrate	Ammonium iron(3+) citrate 1,2,3-propanetricarboxylic acid, 2-hydroxy-, ammonium iron(3+) salt / 2-hydroxy-1,2,3-propanetricarboxylic acid, ammonium iron(3+) salt / ammonium ferric citrate / ammonium ferric citrate, brown / ammonium ferric citrate, green / ammonium iron(III) citrate, green / ammonium iron(III) citrate, red-brown / citric acid ammonium iron(III) salt / citric acid, ammonium iron(3+) salt / FAC / ferric ammonium citrate / ferric ammonium citrate, brown / ferric ammonium citrate, green / iron ammonium citrate / iron(III) ammonium citrate	CAS-No.: 1185-57-5	≥ 1 – < 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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 bisulphite / 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

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

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 / crystol 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 (=sodiumcarbonate)	CAS-No.: 497-19-8	≥ 1 – < 5	Eye Irrit. 2, H319

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

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### 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.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures general	: If you feel unwell, seek medical advice.
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	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: 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 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	: No fire hazard.
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.

#### 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	

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Storage temperature : 2 – 30 °C
- Packaging materials : Store always 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 (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 insufficient ventilation, wear suitable respiratory equipment

##### Personal protective equipment symbol(s):



# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: Beige
Odor	: Characteristic
Odor threshold	: No data available
pH	: 7.4 – 7.8
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	: 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.
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

#### Perfringens Agar Base (TSC)

Unknown acute toxicity (GHS CA)	2.39% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 35.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 38.17% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
---------------------------------	---

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

<b>Ferric ammonium citrate (1185-57-5)</b>	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:
LD50 dermal rabbit	> 7940 mg/kg Source: ECHA
<b>Sodium metabisulfite (7681-57-4)</b>	
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
<b>Sodium carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg (Rat, Male / female, Experimental value of similar product, Hydrate form, Oral, 14 day(s))
LD50 oral	2800 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value of similar product, Hydrate form, 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
Skin corrosion/irritation	: Not classified. pH: 7.4 – 7.8
<b>Ferric ammonium citrate (1185-57-5)</b>	
pH	6 – 8 Source: ECHA
<b>Sodium metabisulfite (7681-57-4)</b>	
pH	4.5 (25 %)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7.4 – 7.8
<b>Ferric ammonium citrate (1185-57-5)</b>	
pH	6 – 8 Source: ECHA
<b>Sodium metabisulfite (7681-57-4)</b>	
pH	4.5 (25 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

### Ferric ammonium citrate (1185-57-5)

NOAEL (animal/male, F0/P)	595.9 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### Perfringens Agar Base (TSC)

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

### Sodium metabisulfite (7681-57-4)

Viscosity, kinematic	Not applicable (solid)
----------------------	------------------------

### Sodium carbonate (497-19-8)

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 : Eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

## 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.

### Ferric ammonium citrate (1185-57-5)

LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Static system, Fresh water, Experimental value)
LC50 - Fish [2]	> 100 mg/l Test organisms (species): other:
EC50 - Crustacea [1]	275 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): other:

### Sodium metabisulfite (7681-57-4)

LC50 - Fish [1]	316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Nominal concentration)
EC50 - Crustacea [1]	89 mg/l (EU Method, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	43.8 mg/l (Equivalent or similar to OECD 201, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Sodium metabisulfite (7681-57-4)	
EC50 72h - Algae [1]	43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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

### 12.2. Persistence and degradability

Perfringens Agar Base (TSC)	
Persistence and degradability	Not rapidly degradable

Ferric ammonium citrate (1185-57-5)	
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)	0.154 g O <sub>2</sub> /g substance

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

### 12.3. Bioaccumulative potential

Ferric ammonium citrate (1185-57-5)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-0.737 (Calculated, 25 °C)

Sodium metabisulfite (7681-57-4)	
Bioaccumulative potential	No bioaccumulation data available.
Partition coefficient n-octanol/water (Log Pow)	-3.7 Source: ICSC

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

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### 12.4. Mobility in soil

#### Ferric ammonium citrate (1185-57-5)

Ecology - soil	No (test)data on mobility of the substance available.
----------------	---

#### 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 carbonate (497-19-8)

Surface tension	No data available in the literature
-----------------	-------------------------------------

Ecology - soil	Low potential for adsorption in soil.
----------------	---------------------------------------

### 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.

## SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
<b>14.1. UN Number</b>			
Not regulated for transport			
<b>14.2. UN Proper Shipping Name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group, if applicable</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

### 14.6. Special precautions for user

#### TDG

Not regulated

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### DOT

Not regulated

### IMDG

Not regulated

### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

## SECTION 15 Regulatory information

### Ferric ammonium citrate (1185-57-5)

Listed on the Canadian DSL (Domestic Substances List)

### 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 carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

### Ferric ammonium citrate (1185-57-5)

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

### 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 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)

## SECTION 16 Other Information

Issue date : 05-21-2025  
Revision date : 08-01-2025  
Supersedes : 05-21-2025

### Full text of hazard classes and H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage

# Perfringens Agar Base (TSC)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Full text of hazard classes and H-statements:	
H319	Causes serious eye irritation
H402	Harmful to aquatic life
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.