



Neogen® Salmonella Enrichment Supplement

Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)
Issue date: 16/05/2025 Revision date: 13/10/2025 Supersedes: 13/08/2025 Version: 3.0

SECTION 1: Identification

1.1 Product identifier

Trade name : Neogen® Salmonella Enrichment Supplement
Product form : Mixture
Type of product : Food Safety -- [Food Safety]
Product code : SESUP001

1.2 Other means of identification

Part Number(s) : 700002097|SESUP001

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals
Scientific research and development

1.4 Details of manufacturer or importer

Manufacturer

Neogen Corporation
620 Leshar Place
Lansing Michigan 48912
United States of America
T 800.234.5333
sds@neogen.com - <https://www.neogen.com/>

Importer

Neogen Australasia Pty Ltd
ALLIOTT NZ LTD (CHARTERED ACCOUNTANTS) Level 2
142 Boradway
New Market
Auckland 1023
New Zealand
T 0800 449 129
naa@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)

Country/Area	Organisation/Company	Address	Emergency number	Comment
New Zealand	National Poisons Centre		0800 764 766 (0800 POISON)	

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Germ cell mutagenicity, Category 2 H341
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)

: Danger

Contains

: Malachite green oxalate (< 100 %); Novobiocin, sodium salt (< 100 %); Streptomycin sesquisulfate hydrate (< 100 %); Nalidixic acid (< 100 %)

Hazard statements (GHS NZ)

: H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H341 - Suspected of causing genetic defects
H361 - Suspected of damaging fertility or the unborn child
H411 - Toxic to aquatic life with long lasting effects

Prevention

: 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/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

: P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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/attention.
P310 - Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.

Storage

: P405 - Store locked up.

Disposal

: 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 which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Malachite green oxalate	CAS-No.: 2437-29-8	< 100	Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to GHS NZ
Novobiocin, sodium salt	CAS-No.: 1476-53-5	< 100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Nalidixic acid	CAS-No.: 389-08-2	< 100	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Muta. 2, H341

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
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	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Symptoms caused by exposure

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	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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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. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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.
EAC code	: 2Z - 2Z

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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 : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.
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. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : 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 : 2 – 8 °C
Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

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

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8.4. 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.

Personal protective equipment symbol(s)



Environmental exposure controls	: Avoid release to the environment.
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SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Light green
Odour	: Slight
Odour threshold	: No additional information available
pH	: No additional information available
Evaporation rate	: No additional information available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Freezing point: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Flammability	: Non flammable.
Vapour pressure	: No additional information available
Relative density	: No additional information available
Density	: No additional information available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosive limits	: Not applicable
Minimum ignition energy	: No data 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. Toxicity

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ATE NZ (oral)	352.926 mg/kg bodyweight
Unknown acute toxicity (GHS NZ)Unknown acute toxicity (GHS NZ)	82.24% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
Malachite green oxalate (2437-29-8)	
LD50 oral rat	275 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg
Novobiocin, sodium salt (1476-53-5)	
LD50 oral rat	3500 mg/kg bodyweight (Rat, Literature study)
Nalidixic acid (389-08-2)	
LD50 oral rat	1160 mg/kg (Rat, Oral)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
Novobiocin, sodium salt (1476-53-5)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
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Viscosity, kinematic	Not applicable
Malachite green oxalate (2437-29-8)	
Viscosity, kinematic	Not applicable
Novobiocin, sodium salt (1476-53-5)	
Viscosity, kinematic	Not applicable
Nalidixic acid (389-08-2)	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Not classified
Terrestrial invertebrate toxicity	: Not classified

Malachite green oxalate (2437-29-8)	
LC50 - Fish [1]	0.12 mg/l (96 h, Pimephales promelas)

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Malachite green oxalate (2437-29-8)	
EC50 - Crustacea [1]	0.29 mg/l (48 h, Daphnia magna)
ErC50 algae	1.08 mg/l
BCF - Fish [1]	0.15 mg/l (24 h, Salmo gairdneri, Residues)
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	275 mg/kg (Rat, Oral)

Novobiocin, sodium salt (1476-53-5)	
BCF - Fish [1]	19.28 l/kg (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	2.45 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.457 – 2.672 (log Koc, Estimated value)
LD50 oral rat	3500 mg/kg bodyweight (Rat, Literature study)

Nalidixic acid (389-08-2)	
LC50 - Fish [1]	722.335 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	1.41
LD50 oral rat	1160 mg/kg (Rat, Oral)

12.2. Persistence and degradability

Neogen® Salmonella Enrichment Supplement	
Persistence and degradability	Not rapidly degradable

Malachite green oxalate (2437-29-8)	
Persistence and degradability	Not readily biodegradable in water.

Novobiocin, sodium salt (1476-53-5)	
Persistence and degradability	Not readily biodegradable in water.

Nalidixic acid (389-08-2)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Neogen® Salmonella Enrichment Supplement	
Bioaccumulative potential	No additional information available

Malachite green oxalate (2437-29-8)	
BCF - Fish [1]	0.15 mg/l (24 h, Salmo gairdneri, Residues)
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Novobiocin, sodium salt (1476-53-5)	
BCF - Fish [1]	19.28 l/kg (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	2.45 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.457 – 2.672 (log Koc, Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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Nalidixic acid (389-08-2)	
Partition coefficient n-octanol/water (Log Pow)	1.41
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Neogen® Salmonella Enrichment Supplement	
Mobility in soil	No additional information available

Malachite green oxalate (2437-29-8)	
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)

Novobiocin, sodium salt (1476-53-5)	
Partition coefficient n-octanol/water (Log Pow)	2.45 (Estimated value, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.457 – 2.672 (log Koc, Estimated value)
Ecology - soil	Low potential for adsorption in soil.

Nalidixic acid (389-08-2)	
Partition coefficient n-octanol/water (Log Pow)	1.41

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

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 IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated	Not regulated	3077
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Malachite Green Oxalate)
Transport document description		
Not regulated	Not regulated	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Malachite Green Oxalate), 9, III
14.3. Transport hazard class(es)		
Not regulated	Not regulated	9

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IMDG	IATA	UNRTDG
Not regulated	Not regulated	
14.4. Packing group		
Not regulated	Not regulated	III
14.5. Environmental hazards		
Not regulated	Not regulated	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail

Special provisions (UN RTDG)	: 274, 331, 335, 375
Limited quantities (UN RTDG)	: 5 kg
Excepted quantities (UN RTDG)	: E1
Packing instruction (UN RTDG)	: P002, IBC08, LP02
Special packing provisions (UN RTDG)	: PP12, B3
Portable tank and bulk container special instructions (UN RTDG)	: T1, BK2, BK3
Portable tank and bulk container special provisions (UN RTDG)	: TP33

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

EAC code : 2Z.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Malachite green oxalate (2437-29-8)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR004839
Novobiocin, sodium salt (1476-53-5)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003908
Nalidixic acid (389-08-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR007286

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15.2. Chemical safety assessment

Australian Inventory of Industrial Chemicals (AICIS)	All substances are listed
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SECTION 16: Other information

Issue date : 16/05/2025
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Full text of H-statements

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), New Zealand

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.