

SAFETY DATA SHEET
BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

SECTION 1. IDENTIFICATION

Product name : BioSentry® 904
Product code : D12695590, D12709560

Manufacturer or supplier's details

Company : **Neogen Corporation**
620 Lesher Place
Lansing MI 48912
USA

E-mail address : SDS@neogen.com
Emergency telephone number : 1-800-234-5333

Recommended use of the chemical and restrictions on use

Recommended use : Biocides

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1B
Serious eye damage : Category 1

GHS Label element

Hazard pictograms



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H302 + H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

H318 Causes serious eye damage.

Precautionary statements**Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
 P363 Wash contaminated clothing before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	12.36 - 13.66
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	8.20 - 9.10
Ethanol	64-17-5	1.00 - 5.00

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

If inhaled	:	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. First aider needs to protect himself. Call a physician immediately.
In case of skin contact	:	After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Call a physician immediately.
If swallowed	:	Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Dry powder Foam
Specific hazards during firefighting	:	Heating or fire can release toxic gas.
Further information	:	Use water spray to cool unopened containers.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use respirator when performing operations involving potential exposure to vapour of the product.
Environmental precautions	:	
General advice	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 000000008238

Revision Date: 2019.07.18

- Advice on safe handling : Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
- Materials to avoid : Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm 1,900 mg/m ³	NIOSH/GUIDE
		PEL	1,000 ppm 1,900 mg/m ³	OSHA_TRANS
		TWA	1,000 ppm 1,900 mg/m ³	Z1A
		STEL	1,000 ppm	CAD ON OEL

Appropriate engineering controls

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.

In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection
- Remarks : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : Tightly fitting safety goggles
Face-shield
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Rubber or plastic apron
Rubber or plastic boots
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid

SAFETY DATA SHEET
BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

Colour	: various
Odour	: Varies with fragrance added
Odour Threshold	: no data available
pH	: 13
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: 51.66 °C
Evaporation rate	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: no data available
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Conditions to avoid	: no data available
Incompatible materials	: None known.
Hazardous decomposition products	: Toxic vapors/fumes of amines Carbon oxides Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 000000008238

Revision Date: 2019.07.18

Information on likely routes of exposure : Inhalation
Ingestion
Eyes
Skin

Acute toxicity

Acute oral toxicity (LD50) : 1,050 mg/kg
Species: Rat

Acute dermal toxicity (LD50) : 1,100 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : severe irritant, possibly corrosive
Species: Rabbit

Serious eye damage/eye irritation

Eye irritation : severe irritant, possibly corrosive
Species: Rabbit

Further information

Remarks: Components influencing toxicology

The following toxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS-No.: 68424-85-1)

Acute toxicity

Acute oral toxicity (LD50) : ca. 344 mg/kg
Species: Rat

Acute dermal toxicity (LD50) : ca. 3,340 mg/kg
Species: Rabbit
Exposure time: 24 h

Skin corrosion/irritation

Skin irritation : Corrosive
Species: Rabbit
Exposure time: 24 h
Method: DOT

Serious eye damage/eye irritation

Eye irritation : Corrosive
Species: Rabbit
Method: DOT

Respiratory or skin sensitisation

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

Sensitisation : Test Type: Buehler Test
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Result: not sensitizing
GLP: yes

Germ cell mutagenicity

Genotoxicity in vitro : negative
Ames test, Salmonella typhimurium
Metabolic activation: yes Method: OECD Test Guideline 471
GLP: yes

negative
Chromosome aberration test in vitro, Human lymphocytes
Metabolic activation: yes Method: OECD Test Guideline 473
GLP: yes

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

Components:

Ethanol

Partition coefficient: n-octanol/water : log Pow: -0.3

Mobility in soil

no data available

Other adverse effects

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

The following ecotoxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS-No.: 68424-85-1)

Ecotoxicity

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

Toxicity to fish (LC50)	: 0.28 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h Analytical monitoring: yes Method: US-EPA GLP: yes
Toxicity to fish (NOEC)	0.032 mg/l Species: Pimephales promelas (fathead minnow) Early-life Stage Exposure time: 34 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to daphnia and other aquatic invertebrates (EC50)	: 0.016 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (NOEC)	: 0.0042 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to algae (ErC50)	: 0.049 mg/l Species: Pseudokirchneriella subcapitata (green algae) Cell multiplication inhibition test Exposure time: 72 h Test Type: Cell multiplication inhibition test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to algae (EC50)	0.12 mg/l Species: Lemna gibba Growth inhibition Exposure time: 7 d Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 000000008238

Revision Date: 2019.07.18

Toxicity to algae (ErC50)	0.089 mg/l Species: algae Growth inhibition Exposure time: 96 h Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA GLP: yes
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to bacteria (EC50)	: 7.75 mg/l Species: activated sludge Respiration inhibition Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 EC50: > 1,000 mg/kg Exposure time: 28 d Method: OECD Test Guideline 216 GLP: yes
Plant toxicity	: EC50: 277 - 1,900 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208

Persistence and degradability

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 000000008238

Revision Date: 2019.07.18

Biodegradability : Test Type: OECD Confirmatory Test
Biodegradation: > 90 %
Method: OECD Test Guideline 303 A

Test Type: Modified SCAS Test
Biodegradation: > 99 %
Exposure time: 7 d
Method: OECD Test Guideline 302 A
GLP: yes

Test Type: CO2 Evolution Test
Concentration: 5 mg/l
Result: Readily biodegradable
Biodegradation: 95.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Stability in water : Method: EPA-FIFRA
GLP: yes

Bioaccumulative potential

no data available

Mobility in soil

Distribution among environmental compartments : Adsorption/Soil
Method: EPA-FIFRA

Other adverse effects

no data available

Nonylphenol branched ethoxylated (CAS-No.: 127087-87-0)

Ecotoxicity

SAFETY DATA SHEET

BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

Toxicity to fish (LC50)	:	6.6 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates (EC50)	:	21.6 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h
Toxicity to bacteria (EC50)	:	> 5,000 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SAFETY DATA SHEET
BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

SECTION 14. TRANSPORT INFORMATION

IATA

UN number : 2920
Proper shipping name : Corrosive liquid, flammable, n.o.s.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Labels : 8 (3)
Environmental hazards : no

IMDG

UN number : 2920
Proper shipping name : Corrosive liquid, flammable, n.o.s.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Labels : 8 (3)
EmS Number 1 : F-E
EmS Number 2 : S-C
Environmental hazards : Marine pollutant: yes

ADR

UN number : 2920
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Classification Code : CF1
Hazard Identification Number : 83
Labels : 8 (3)
Environmental hazards : no

RID

UN number : 2920
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Classification Code : CF1
Hazard Identification Number : 83
Labels : 8 (3)
Environmental hazards : no

SAFETY DATA SHEET
BioSentry® 904

Version 1

SDS Number: 00000008238

Revision Date: 2019.07.18

DOT

UN number : 1903
Proper shipping name : Disinfectants, liquid, corrosive n.o.s.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Labels : 8
Emergency Response Guidebook : 153
Number
Environmental hazards : no

TDG

UN number : 2920
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class : 8
Packing group : II
Labels : 8 (3)
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : DANGER!
Hazard statements : Corrosive. Causes irreversible eye damage.
Corrosive. Causes skin burns.
Harmful if swallowed.
Harmful if absorbed through skin.
EPA No. : 6836-78
WHMIS Classification : E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards : Acute Health Hazard
Fire Hazard

SARA 302

SAFETY DATA SHEET
BioSentry® 904

Version 1

SDS Number: 000000008238

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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Ethanol 64-17-5

Pennsylvania Right To Know

Ethanol 64-17-5

New Jersey Right To Know

Ethanol 64-17-5

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.