

Description

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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BotVax® B Clostridium Botulinum Type B Toxoid

ozorron nidonanodion o	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	BotVax® B Clostridium Botulinum Type B Toxoid
Product code	200180, 200181
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Description	Injectable.
1.3. Details of the supplier of th	e safety data sheet
Company	Neogen Corporation
Address	620 Lesher Place
	Lansing MI 48912
	USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com
1.4. Emergency telephone num	ber
	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)
Further information	
	Manufactured By:.
	Neogen Corporation
	944 Nandino Blvd.
	Lexington, KY 40511-1205 U.S.A.
SECTION 2: Hazards identi	fication
2.1. Classification of the substa	nce or mixture
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
2.2. Label elements	
Hazard Statements	No Significant Hazard
2.3. Other hazards	
Other hazards	Contains material(s) which may damage fertility or the unborn child. Contains substance(s) which are hazardous to the environment.

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Description		
	No components need to be disclosed according to the applicable regulations. Concentrations listed are not product specifications.	
Further information		
	Full text of Hazard Statements listed in this Section is provided in Section 16.	
SECTION 4: First aid me	asures	
4.1. Description of first aid m	easures	
Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.	
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.	
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.	
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.	
4.2. Most important sympton	ns and effects, both acute and delayed	
Inhalation	May cause irritation to respiratory system.	
Eye contact	May cause irritation to eyes.	
Skin contact	May cause irritation to skin.	
Ingestion	Ingestion may cause nausea and vomiting.	
4.3. Indication of any immed	iate medical attention and special treatment needed	
	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.	
SECTION 5: Firefighting	measures	
5.1. Extinguishing media		
	Use extinguishing media appropriate to the surrounding fire conditions.	
5.2. Special hazards arising	from the substance or mixture	
	Contains substance(s) which are hazardous to the environment. Do not allow undiluted product to be released to ground water, water course or sewage system.	
5.3. Advice for firefighters		
	Do not breathe vapor or spray mist. Wear suitable respiratory equipment when necessary.	
SECTION 6: Accidental r	elease measures	
6.1. Personal precautions, p	rotective equipment and emergency procedures	
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.	
6.2. Environmental precaution	ons	
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.	
6.3. Methods and material for containment and cleaning up		
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water.	

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6.3. Methods and material for containment and cleaning up

Do not contaminate water by cleaning of equipment or disposal of wastes.

6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing.

Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Keep refrigerated.

Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls





Appropriate engineering controls

Individual protection measures

Ensure adequate ventilation of the working area.

Eye / face protection

Use as appropriate: Protective equipment. Use as appropriate: Suitable eye protection.

Skin protection - Hand protection

Use as appropriate: Chemical-resistant gloves made of any waterproof material.

Skin protection - Other

Use as appropriate: Protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Occupational exposure controls

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear
Odor	Odorless
Odor threshold	No data available
pH	5.3 - 5.7
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or
pressure are not expected.

10.4. Conditions to avoid

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i Keeb aw	av trom	extreme	temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	May cause irritation to skin.	

11.1. Information on toxicologic	eal effects	
Serious eye damage/irritation	May cause irritation to eyes.	
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.	
Germ cell mutagenicity	No mutagenic effects reported.	
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Listed by the International Agency for Research on Cancer (IARC) as a Group 2 substance: suspected of being a human carcinogen, [Thimerosal (mercury compounds), CAS No. 54-64-8 (<0.05%)]. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.	
Reproductive toxicity	Contains material(s) which may damage fertility or the unborn child.	
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
STOT-repeated exposure	No Significant Hazard.	
Aspiration hazard	No Significant Hazard.	
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.	
11.1.2. Mixtures		
	See Section(s) 3 for further information.	
11.1.3. Hazard Information		
	See Section(s) 2 and 3 for further information.	
11.1.4. Toxicological information	n .	
BotVax® B Clostridium Botulinum Type B Toxoid	Oral Rat LD50: 4000	
11.1.5. Hazard Class		
	See Section(s) 2 and 14 for further information.	
11.1.6. Classification Criteria		
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.	
11.1.7. Information on likely rou	ites of exposure	
	Eye contact. Skin contact. Ingestion. Inhalation.	
11.1.8. Symptoms related to the	e physical, chemical and toxicological characteristics	
	See Section(s) 4.2 for further information.	
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure	
	See Section(s) 4.2 for further information.	
11.1.10. Interactive effects		
	No data available.	
11.1.11. Absence of specific da	nta	
	<1% of this mixture consists of ingredients of unknown acute toxicity.	
11.1.12. Mixture versus substa	nce information	

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11.1.12. Mixture versus substa	nce information
	See Section(s) 3 for further information.
11.1.13. Other information	
	No data available.
SECTION 12: Ecological inf	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradal	Dility
	No data is available on this product.
12.3. Bioaccumulative potential	
	No data is available on this product.
Partition coefficient	
	BotVax® B Clostridium No data available Botulinum Type B Toxoid
40.4 Mahilitain anil	
12.4. Mobility in soil	Ma deta is socilable on this product
12.5. Results of PBT and vPvB	No data is available on this product.
12.5. Results of FBT and VFVB	No data is available on this product.
12.6. Other adverse effects	No data is available on this product.
TELO: Othor dayordo oncom	Contains substance(s) which are hazardous to the environment. Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal con	siderations
13.1. Waste treatment methods	
To. 1. Wadio dodanoni modioac	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	Dispose of in compliance that an icear and material regulations i client label metactions.
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	· · · · · ·
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	ormation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	

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14.2. UN proper shipping name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.	
14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	The product is not classified as dangerous for carriage.	
SECTION 15: Regulatory information		

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.	
Chemical Inventories/Right-to-Know	Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions.	
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Lists:	Toxic Substances Control Act (TSCA): All ingredients listed or exempt.	
	Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.	
	New Jersey Worker and Community Right to Know Act: This product contains no hazardous substances at or above published reporting levels.	
	Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.	
	Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.	
	California residents please note. WARNING: This product can expose you to chemicals, including Thimerosal (mercury compounds), CAS No. 54-64-8 (<0.05%), which is/are known to the State of California to cause	
	birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.	

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 1 - Description. 1 - Product Use. 9 - 9.2. Other information (Product Subcategory). 12 - 12.1. Toxicity. 15 - Chemical Inventories/Right-to-Know Lists:. 16 - Maximum content of VOC.
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).

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Other information

FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.

GHS: Globally Harmonized System.

HCS 2012: Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

OSHA: U.S. Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit.

REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.

STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern.

US DOT: United States Department of Transportation.

VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.

Further information

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