



Dominion Veterinary Laboratories Limited

Quality Animal Health Pharmaceuticals - Dedicated Service Since 1950

1199 Sanford Street - Winnipeg, Manitoba R3E 3A1

Telephone: (204) 589.7361 / 589.7362 - Fax: (204) 943.9612

Toll Free: 1.800.465.7122 - www.domvet.com

Safety Data Sheet BORAX

Date: November 15, 2022

1: Identification

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Borax

Recommended use of the chemical and restrictions on use

: Industrial chemical

Restricted Uses No information available

Product Code: 00P-BORA3

D.I.N.: N/A

Supplier: Shelbri Chemical Sales (Division of)
Dominion Veterinary Labs LTD.
1199 Sanford St.
Winnipeg, Manitoba
R3E 3A1
Telephone: (204)-586-3484
Fax: (204)-943-9612

Emergency telephone number :

Local Emergency Contact : During Office hours Monday-Friday, 9:00 am - 4.30 pm (CST) : 1-204-589-7361, 800-465-7122.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation Category 2A

Reproductive toxicity Category 2



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GHS label elements

Hazard pictograms



Signal word:

Warning

Hazard statements : H319 Causes serious eye irritation.
H361f Suspected of damaging fertility

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:

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

Substance / Mixture : Substance

Hazardous components



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CAS-No.	Chemical name	Weight percent
12179-04-3	Sodium Tetraborate Pentahydrate	90 - 100

Any Concentration shown as a range is due to batch variation.

Molecular formula : **Na₂B₄O₇·5H₂O**

Synonyms : Di-Sodium Tetraborate Anhydrous, Anhydrous Borax, Dehydrated Borax, Sodium Tetraborate Pentahydrate, Borax Pentahydrate, Sodium Biborate Pentahydrate, Disodium Tetraborate Pentahydrate

SECTION 4: First aid measures

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General advice	: Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Take victim immediately to hospital. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: Nausea Vomiting Diarrhoea Redness Irritation
Notes to physician	: Treat symptomatically



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SECTION 5: Firefighting measures

Suitable extinguishing media	: Use an extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses. During a fire, irritating or toxic decomposition products may be generated.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
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Advice on safe handling

: Avoid formation of respirable particles.
 Do not breathe vapours/dust.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
12179-04-3	Sodium Tetraborate Pentahydrate	TWA	1 mg/m ³	NIOSH REL
		TWA	10 mg/m ³	OSHA P0

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.
 Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection :

Eye wash bottle with pure water
 Tightly fitting safety goggles
 Wear face-shield and protective suit for abnormal processing problems.



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Skin and body protection

Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Appearance	: Crystalline powder, granular, solid
Colour	: white
Odour	: odorless
Odour Threshold	: No data available
pH	: 9.3 @ 3 % @ 20 °C (68 °F)
Freezing Point (Melting point/freezing point)	: 200 °C (392 °F)
Boiling Point (Boiling point/boiling range)	: 1,575 °C (2,867 °F) (1013 hPa)
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: @ 20 °C (68 °F) negligible
Relative vapour density	: No data available
Relative density	: 1.81
Density	: 1.81 g/cm ³
Solubility(ies) Water solubility	: soluble @ 20 °C (68 °F)



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Solubility in other solvents : soluble
Solvent: Methanol

Partition coefficient: : No data available
noctanol/water

Auto-ignition temperature : Not applicable

Thermal decomposition : No data available

SECTION 10: Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid : excessive heat

Incompatible materials : Strong reducing agents metal hydrides Acetic anhydride
Alkali metals Acids alkaloids
metal salts

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours. water vapor

SECTION 11 : Toxicological information

Acute toxicity Product:

Acute oral toxicity : Assessment: The component/mixture is minimally toxic after single ingestion.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Acute oral toxicity : LD50 (Rat): 3,305 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Remarks: No data available

Skin corrosion/irritation

Species: Rabbit

Result: Mild skin irritation



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Serious eye damage/eye irritation

Result: Irritating to eyes.

Species: Rabbit

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Test Type: Maximization test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.



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Teratogenicity - Assessment : Presumed human reproductive toxicant

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Aspiration toxicity

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

Ecotoxicity

Toxicity to fish : LC50 (Catostomus commersoni (white sucker)): 125 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 133 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae: EC50 (Selenastrum capricornutum (green algae)): 40 mg/l
Exposure time: 72 h

Acute aquatic toxicity-
Assessment: Harmful to aquatic life.

Chronic aquatic toxicity-
Assessment: Harmful to aquatic life with long lasting effects.

Persistence and degradability

Biodegradability: Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82



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Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects..

SECTION 13: Disposal considerations

Disposal methods

Waste from residues:

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14: Transport information

DOT (Department of Transportation): Not regulated as a dangerous good
UNRTDG

Not regulated as a dangerous good

IATA (International Air Transport Association):

Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

SECTION 15: Regulatory information

WHMIS Classification

: D2A: Very Toxic Material Causing Other Toxic Effects

D2B: Toxic Material Causing Other Toxic Effects

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



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SARA 304 Extremely Hazardous Substances Reportable

Quantity This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation
Reproductive toxicity

SARA 302 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

307 US State Regulations

Massachusetts Right To Know

12179-04-3	Sodium Tetraborate Pentahydrate	90 - 100 %
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Pennsylvania Right To Know

12179-04-3	Sodium Tetraborate Pentahydrate	90 - 100 %
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New Jersey Right To Know

12179-04-3	Sodium Tetraborate Pentahydrate	90 - 100 %
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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.

The components of this product are reported in the following inventories:



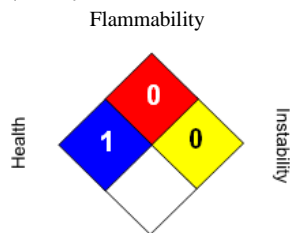
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- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA:



HMIS III:

HEALTH	0*
FLAMMABILITY	0
PHYSICAL HAZARD	1

Special hazard.

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 =Extreme, * = Chronic

The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without obligation on our part and the Company accepts no liability to any customers, their employees or any other person whatsoever for any loss, injury or damage whether direct or consequential, which may be caused by an error or emission from this sheet even if negligence or otherwise.

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