


1 – IDENTIFICATION

IDENTIFIER	Borax Osmose
PRODUCT CODE	
RECOMMENDED USE	Laundry booster.
RESTRICTIONS ON USE	
SUPPLIER / MANUFACTURER	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc G0L 2G0 418-970-0889
EMERGENCY TELEPHONE	418-970-0889 Monday to Friday, 9h00 to 17h00

2 – HAZARD IDENTIFICATION

CLASSIFICATION	Eye irritation 2A Reproductive toxicity 1B Specific target organ exposure, single exposure; Respiratory tract irritation 3	
LABEL ELEMENTS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	H319 H360 H355	Causes serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation.
PRECAUTIONARY STATEMENTS – PREVENTION	P201 P202 P280 P261 P271	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust / fume / gas / mist / vapours /spray. Use only outdoors or in a well-ventilated area.
PRECAUTIONARY STATEMENTS – RESPONSE	P305+P351+P338 P337+P313 P308+P313 P304+P340 P312	IF IN EYES: 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. IF EXPOSED OR CONCERNED: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
PRECAUTIONARY STATEMENTS –	P403+P233	Store in a well ventilated place. Keep container tightly

STORAGE	P405	closed. Store locked up.
PRECAUTIONARY STATEMENTS - ELIMINATION	P501	Dispose contents/containers according to municipal, provincial and federal regulations.
OTHER HAZARDS	Not applicable.	

3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S.	CONCENTRATION
Sodium tetraborate decahydrate	1303-96-4	85 – 100 *

* TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

4 – FIRST AID MEASURES

ROUTE OF EXPOSURE	Inhalation, eyes, skin, ingestion
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INHALATION	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.
DERMAL	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
OCULAR	IF IN EYES: 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.
ORAL	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.
NOTE TO PHYSICIAN	Supportive care only is required for adult ingestion of less than a few grams of the product. For ingestion of larger amounts, maintain fluid and electrolyte balance and maintain adequate kidney function. Gastric lavage is only recommended for heavily exposed, symptomatic patients in whom vomiting has not emptied the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially for patients with compromised renal function. Boron analyses of urine or blood are only useful for verifying exposure and are not useful for evaluating severity of poisoning or as a guide in treatment.

5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Use an extinguishing agent suitable for the surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA	None known.
SPECIFIC HAZARDS	Sodium oxides, acrid smoke.
PROTECTIVE EQUIPMENT	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
PRECAUTIONS	Do not let water run-off reach sewers, ditches or waterways.

6 – ACCIDENTAL RELEASE MEASURES

PROTECTIVE EQUIPMENT	Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.
CONTAINMENT AND CLEAN UP	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
ENVIRONMENTAL PRECAUTIONS	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

7 – HANDLING AND STORAGE

HANDLING	Containers must be identified correctly. Handle in a well-ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.
STORAGE	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
INCOMPATIBLE MATERIALS	Strong reducing agents such as metal hydrides or alkali metals, acids.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Sodium tetraborate decahydrate	1303-96-4	ACGIH	TWA 2 mg/m ³ STEL 6 mg/m ³

ENGINEERING CONTROLS	Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level.
RESPIRATORY PROTECTION	Maintain atmospheric concentrations below exposure limits. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
PROTECTIVE EQUIPMENT AND CLOTHING	Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Ensure that eyewash stations, showers and cleaning stations are near to workstation.
OCULAR PROTECTION	Chemical goggles; also wear a face shield if splashing hazard exists.
GENERAL HYGIENE RECOMMENDATIONS	Ensure that eyewash stations and safety showers are proximal to the work-station location. Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near workstations. Good hygiene is recommended after using this product. Clean clothing before reuse.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid, white.
ODOUR	Odourless.

ODOUR TRESHOLD	Not available.
pH	9.50 (saturated solution).
MELTING / FREEZING POINT	75°C
INITIAL BOILING POINT	Not available.
FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Not flammable.
LOWER FLAMMABLE/EXPLOVISE LIMIT	Not applicable.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not applicable.
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	1.72
SOLUBILITY (in water)	62.5 g/L
PARTITION COEFFICIENT (n-octanol/water)	-0.757
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC	Not applicable.
VISCOSITY	Not applicable.

10 – STABILITY AND REACTIVITY

REACTIVITY	Stable under recommended usage.
CHEMICAL STABILITY	Stable under normal usage conditions.
HAZARDOUS REACTIONS	Polymerization will not occur.
CONDITIONS TO AVOID	Incompatible materials.
INCOMPATIBLE MATERIALS	Strong reducing agents such as metal hydrides or alkali metals.
HAZARDOUS DECOMPOSITION PRODUCTS	Sodium oxides.
ADDITIONAL INFORMATION	None.

11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	May cause respiratory irritation, dry mouth, nose and throat accompanied by nasal bleeding, dry cough and dyspnea.
DERMAL	Slightly irritating to skin. Itching.
OCULAR	Causes serious eye irritation. Pain, redness, tearing.
ORAL	Ingestion of a large amount of borax can cause nausea, vomiting and diarrhea. These digestive disorders are followed by headaches, hallucinations and tremors. Kidney damage is also sometimes observed.
CHRONIC EFFECTS	
INHALATION	No data.

DERMAL	Repetitive skin contact can cause hair loss. After the exposure stops, hair growth may resume.
OCULAR	No data.
ORAL	Repeated ingestion of borax can cause exfoliative dermatitis.
ADDITIONAL INFORMATION	
CARCINOGENIC EFFECTS (IARC)	Not classified.
MUTAGENIC EFFECTS	No data.
TERATOGEN EFFECTS	No data.
REPRODUCTION	May damage fertility or the unborn child.
SENSIBILISATION	No data.
TARGET ORGANS	Kidneys.
AGGRAVATED CONDITIONS	No data.
SYNERGISTIC SUBSTANCES	No data.

CHEMICAL NAME	C.A.S.	LD50 ORAL mg/kg	LD50 DERMAL mg/kg	LC50 INHALATION
Sodium tetraborate decahydrate	1303-96-4	3500, rat	>2000, rabbit	>2 mg/L, 4hrs, rat

12 – ECOLOGICAL INFORMATION

Sodium tetraborate decahydrate	1303-96-4
EC50 25.4 mg/L (as Boron)	Pseudokirchneriella subcapitata
LC50 91 mg/L (as Boron)	Ceriodaphnia magna
LC50 79.7 mg/L (as Boron)	Pimephales promelas
NOEC 6.4 mg/L (as Boron)	Brachydanio rerio
NOEC 14.2 mg/L (as Boron)	Daphnia magna
NOEC 17.5 mg/L (as Boron)	Pseudokirchneriella subcapitata

PERSISTENCE AND DEGRADABILITY	Not applicable.
BIOACCUMULATIVE POTENTIAL	Not available.
SOIL MOBILITY	Not available.
OTHER ADVERSE EFFECTS	Not available.
ADDITIONAL INFORMATION	Do not let material or fire-fighting water run-off enter sewers or waterways. Obstruct drains and ditches. Affected areas must be cleaned and restored to their original conditions or to the satisfaction of the authorities.

13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
CONTAMINATED PACKAGING	Empty containers should be recycled or disposed of through an approved waste management facility.

14 – TRANSPORT INFORMATION

TRANSPORT OF DANGEROUS GOODS (CANADA)

Not regulated for transport.

MARINE POLLUTANT

No.

SPECIAL PRECAUTIONS

None known.

15 – REGULATORY INFORMATION

CANADA

CEPA

All components of this product are either listed or exempt from listing on the Domestic substances List (DSL).

USA

TSCA

All components of this product are either listed or exempt from listing on the Toxic Substances Control Act (TSCA) Inventory.

16 – OTHER INFORMATION

VERSION

1.0

DATE

23 juin 2021

PREPARED BY

LABORATOIRE CAMPEAU INC.
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ABBREVIATIONS

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ACGIH

American Conference of Governmental Industrial Hygienists

AIHA

American Industrial Hygiene Association

CAS

Chemical Abstract Service

CEPA

Canadian Environmental Protection Act

CIRC

Centre International pour la Recherche sur le Cancer

CL / LC

Concentration létale / Lethal concentration

DL / LD

Dose létale / Lethal dose

CE / EC

Concentration efficace / Effective concentration

IARC

International Agency for Research on Cancer

LCPE

Loi Canadienne sur la Protection de l'Environnement

LES/NDSL

Liste extérieure des substances / Non domestic substances list

LIS/DSL

Liste intérieure des substances / Domestic substances list

NIOSH

National Institute for Occupational Safety and Health

NTP

National Toxicology Program (U.S.A.)

OSHA

Occupational Safety and Health Administration (U.S.A.)

PEL

Permissible Exposure Limit

SIMDUT

Système d'information sur les matières dangereuses utilisées au travail

STEL

Short-term Exposure Limit

STOT

Specific target organ toxicity

TCOC	Toxicité pour certains organes cibles
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
VECD	Valeur exposition courte durée
VEMP	Valeur exposition moyenne pondérée
WHMIS	Workplace Hazardous Materials Information System
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