SAFETY DATA SHEET



Section 1. Identification

Product name : Tim-bor®

Chemical name : Disodium octaborate tetrahydrate

Other means of : Canada PMRA name:20 Mule team *tim-bor* Industrial Wood preservative.

identification Canada PMRA PCP Reg. No. 18879

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Material uses : Wood preservative

Supplier's details : U.S. Borax Inc.

14486 Borax Road Boron, CA 93516-2000

USA

+1 (760) 762 7000

e-mail address of person responsible for this SDS

: rtb.sds@riotinto.com

Emergency telephone

number

: Toll Free (24 Hr) +1 866 928 0789 Non-Toll Free (24 Hr)

+1 215 207 0061 (Rio Tinto Borates)

For advice on chemical emergencies, spillages, fires or first aid.

Section 2. Hazard identification

Classification of the substance or mixture

: TOXIC TO REPRODUCTION - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Suspected of damaging fertility or the unborn child.

Precautionary statements

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

Response: IF exposed or concerned: Get medical advice/attention.

Storage : Not applicable.

Disposal : Dispose of contents/container in accordance with local regulation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Disodium octaborate tetrahydrate

Ingredient name	% (w/w)	Identifiers	Trade secret
visodium octaborate tetrahydrate	>98	CAS: 12280-03-4	

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Use eye wash fountain or fresh water to cleanse the eye. If irritation persists for more

than 30 minutes, seek medical attention.

Inhalation : If symptoms such as nose or throat irritation are observed, remove to fresh air.

Skin contact : No treatment necessary.

: Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If Ingestion larger amounts are swallowed, give two glasses of water to drink and seek medical

attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely

damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed

effects of skin redness and peeling.

: This product is not intended for ingestion. Small amounts (e.g., a teaspoon) Ingestion swallowed accidentally are not likely to cause effects; swallowing amounts larger

than that may cause gastrointestinal symptoms. Symptoms of accidental overexposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and

peeling.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed

effects of skin redness and peeling.

: Symptoms of accidental over-exposure to high doses of inorganic borate salts have Ingestion

been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed

effects of skin redness and peeling.

Indication of immediate medical attention and special treatment needed, if necessary

Notes 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 emesis 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.

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Section 4. First aid measures

Specific treatments

: No specific treatment.

Protection of first-aiders

: No special protective clothing is required

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: None. The product is not flammable, combustible or explosive.

Hazardous thermal decomposition products

: None.

Special protective actions for fire-fighters

: None.

Special protective equipment for fire-fighters

: Not applicable.

equipment for fire-fighters Remark

: Non-flammable. The product is not flammable, combustible or explosive.

Remark : Not explosive.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

The product is a water-soluble white powder that may cause damage to trees or vegetation by root absorption. Avoid contamination of water bodies during clean up and disposal. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level or meets local water quality standards.

Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Good housekeeping procedures should be followed to minimise dust generation and accumulation. Avoid spills.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity and to minimise caking of the product, bags should be handled on a first-in first-out basis.

Storage temperature: Ambient temperature Storage pressure: Ambient pressure Special sensitivity: Moisture (Caking)

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: In the absence of a national OEL, Rio Tinto Borates recommends and applies internally an Occupational Exposure Limit (OEL) of 1 mg B/m³. To convert product into equivalent boron (B) content, multiply by 0.21.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. Recommended: Eye protection according to ANSI Z.87.1 or other national standards may be warranted if environment is excessively dusty.

Skin protection

Hand protection

: Standard work gloves (cotton, canvas or leather) may be warranted if environment is excessively dusty.

Body protection Other skin protection

: No special protective clothing is required.

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Section 8. Exposure controls/personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state Solid. : White. Color Odor : Odorless.

Odor threshold : Not applicable. Odorless.

: 8.2 (3.0% solution); 7.6 (10% solution) pΗ

Melting point/freezing point : >1000°C (>1832°F)

Boiling point or initial boiling point and boiling

range

Flash point : Not applicable. Inorganic substance. **Evaporation rate** : Not applicable (solid). [Non-volatile.]

: Non-flammable. The product is not flammable, combustible or explosive. **Flammability**

: Not applicable. [melting point >300°C]

Lower and upper explosion limit/flammability limit

: Not applicable. Non-flammable.

: Not applicable. Melting point>300°C Vapor pressure Relative vapor density : Not applicable. Melting point>300°C

Relative density : 1.87 @ 22°C

: 1.87 g/cm³ [22°C (71.6°F)] Density

Bulk density : Not available. Depends on batch. : Not available. Depends on batch. Granulometry

Solubility in water : 223.65 g/L @ 20°C

Partition coefficient: n-

octanol/water

: Not applicable. [Inorganic substance.]

Auto-ignition temperature : Not applicable (solid). [Not self-heating.] **Decomposition temperature** : Not applicable. Melting point>300°C

Dynamic (room temperature): Not applicable (not liquid). [solid substance] **Viscosity** Kinematic (room temperature): Not applicable (not liquid). [solid substance]

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

: Under ambient temperatures, the product is stable. **Chemical stability**

Possibility of hazardous reactions

: Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.

Conditions to avoid Avoid contact with strong reducing agents by storing according to good industrial practice.

Incompatible materials : Strong reducing agents

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Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Absorption

: Absorption of borates via the oral route is nearly 100 %. For the inhalation route also 100 % absorption is assumed as worst case scenario. Dermal absorption through intact skin is very low with a percent dose absorbed of < 0.5 %.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Disodium octaborate tetrahydrate	LC50 Inhalation Vapor	Rat	>2 mg/l	4 hours
,, ,	LD50 Dermal	Rabbit	>2000 mg/kg body weight	-
	LD50 Oral	Rat	2550 mg/kg body weight	-

Conclusion/Summary

: Based on the available data, the classification criteria are not met.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Disodium octaborate tetrahydrate	Eyes - Redness of the conjunctivae Skin - No irritation.	New Zealand White Rabbit New Zealand White Rabbit	0.5	0.08 ml equivalent 0.5 g moistened with saline	-

Conclusion/Summary

Skin

: Non-irritant to skin.

Eyes

: Based on mean scores less than 1, the effects were fully reversible within 7 days.

Based on the available data, the classification criteria are not met.

Respiratory

: Based on the available data, the classification criteria are not met.

Respiratory or skin sensitization

Product/ingredient name	Route of exposure	Species	Result
Disodium octaborate tetrahydrate	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin

: Non-sensitizer to skin. Based on the available data, the classification criteria are not met.

Respiratory

: No respiratory sensitization studies have been conducted. There are no data to suggest that boric acid is a respiratory sensitizer. Based on the available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Disodium octaborate tetrahydrate	(based on boric acid).	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative

Conclusion/Summary

: Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Disodium octaborate tetrahydrate	Negative - Oral - TC			Oral feeding study

Conclusion/Summary

: No evidence of carcinogenicity in mice. Based on the available data, the classification criteria are not met.

Reproductive toxicity

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Section 11. Toxicological information

Product/ingredient name	Maternal toxicity	Fertility	Developmental effects	Species	Effects	Exposure
Disodium octaborate tetrahydrate	Negative	Negative	Negative	Human	No adverse fertility effects in male workers. Epidemiological studies of human developmental effects have shown an absence of effects in exposed borate workers and populations living in areas with high environmental levels of boron.	
	Positive	_	Positive	Rat	NOAEL in rats for developmental effects on the foetus including foetal weight loss and minor skeletal variations is 9.6 mg B/kg; NOAEL in rats for maternal toxicity is 13.3 mg B/kg	Oral feeding study
	-	Positive	-	Rat	NOAEL in rats for effects on fertility in males is 17.5 mg B/kg body weight.	Oral feeding study

Conclusion/Summary

: Reprotoxicity studies have been conducted with boric acid and disodium tetraborate. A multigeneration study in the rat gave a NOAEL for fertility in males of 17.5 mg B/kg/day. Developmental effects have been observed in laboratory animals, the most sensitive species being the rat with a NOAEL of 9.6 mg B/kg bw/day. While boron has been shown to adversely affect male reproduction in laboratory animals, there was no clear evidence of male reproductive effects attributable to boron in studies of highly exposed workers.

Teratogenicity

Conclusion/Summary: See Reproductive toxicity.

Specific target organ toxicity (single exposure)

Name	 Route of exposure	Target organs
Based on the available data, the classification criteria are not met.		

Specific target organ toxicity (repeated exposure)

Name	 Route of exposure	Target organs
Based on the available data, the classification criteria are not met.		

Aspiration hazard

Name	Result
· · · · · · · · · · · · · · · · · · ·	Physical form of solid powder indicates no aspiration hazard potential.

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Section 11. Toxicological information

Information on the likely routes of exposure

: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because product is poorly absorbed through intact skin. **Product is not intended for ingestion.**

Potential acute health effects

Eye contact Inhalation : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Skin contact

: Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

Ingestion

: This product is not intended for ingestion. Small amounts (e.g., a teaspoon) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms. Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Inhalation

: No known significant effects or critical hazards.

Skin contact

: No known significant effects or critical hazards.

: Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

Ingestion

: Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Disodium octaborate tetrahydrate	Chronic NOAEL Oral	Rat	17.5 mg/kg 0; 33 (5.9); 100 (17.5); 334 (58.5) mg boric acid (B)/ kg bw per day (nominal in diet); and 0; 52 (5.9); 155 (17.5); 516 (58.5) mg borax (B)/kg/day (nominal in diet)	Oral feeding study

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Section 11. Toxicological information

Conclusion/Summary

: A NOAEL of 17.5 mg B/kg body weight/day equivalent to 100 mg boric acid/kg body weight/day was determined in a chronic feeding study (2 years) in rats and is based on testes effects.

Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	- ' '	Dermal (mg/kg)	(gases)	(mg/l)	Inhalation (dusts and mists) (mg/l)
None					

Toxicokinetics

Distribution

: Boric acid is distributed rapidly and evenly through the body, with concentrations in bone 2-3 higher than in other tissues.

Metabolism

Elimination

- : In the blood boric acid is the main species present and is not further metabolised.
- : Boric acid is excreted rapidly, with elimination half-lives of 1 h in the mouse, 3 h in the rat and <27.8 h in humans, and has low potential for accumulation. Boric acid is mainly excreted in the urine.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Disodium octaborate	EC50 52.4 mg/l (as Boron)	Pseudokirchneriella subcapitata	Fresh
tetrahydrate			water -
			Acute
	LC50 91 mg/l (as Boron)	Ceriodaphnia dubia	Fresh
			water -
			Acute
	LC50 79.7 mg/l (as Boron)	Pimephales promelas	Fresh
			water -
			Acute
	NOEC 6.4 mg/l (as Boron)	Brachydanio rerio	Fresh
			water -
			Chronic
	NOEC 14.2 mg/l (as Boron)	Daphnia magna	Fresh
			water -
			Chronic
	NOEC 17.5 mg/l (as Boron)	Pseudokirchneriella subcapitata	Fresh
			water -
			Chronic

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Section 12. Ecological information

Conclusion/Summary

: Note that the data values are expressed as boron equivalents. To convert product into equivalent boron (B) content, multiply by 0.21.. Studies judged to be unreliable or with insufficient information to evaluate are not included.

Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants in high quantities. Care should be taken to minimize the amount of this product released to the environment.

Persistence and degradability

Conclusion/Summary

: Not applicable. Inorganic substance.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Boric acid	-0.757	-	Low Boric acid will not biomagnify through the food chain.

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

Mobility (No

: The product is soluble in water and is leachable through normal soil. Adsorption to soils or sediments is insignificant.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Waste packaging should be recycled. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Not applicable.

Transport in bulk according to IMO instruments : Not applicable.

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Section 14. Transport information

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

New Zealand

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union: Russian Federation inventory: All components are listed or exempted.

Japan: **Japan inventory (CSCL)**: All components are listed or exempted.

Japan inventory (ISHL): Not determined.

: All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : All components are listed or exempted.

Turkey : Not determined.

United States: All components are active or exempted.Viet Nam: All components are listed or exempted.

Section 16. Other information

History

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revision

Date of previous issue : 9/25/2024 Version : 1.01

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods
IMSBC = International Maritime Solid Bulk Cargoes Code
LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

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Section 16. Other information

UN = United Nations

Procedure used to derive the classification

Classification	Justification
TOXIC TO REPRODUCTION - Category 2	Expert judgment

Additional information

: Do not ingest.

Keep out of reach of children. Refer to safety data sheet. Not for use in food or drugs.

References

: For general information on the toxicology of borates see Patty's Toxicology, 6th

Edition Vol. I, (2012) Chap. 23, 'Boron'.

Indicates information that has changed from previously issued version.

Canada / 4.14 / EN-US

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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