

Nutri-Borate 21%B™

SAFETY DATA SHEET

EFFECTIVE DATE: January 26, 2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nutri-Borate 21%B™
CHEMICAL NAME/SYNONYM: Disodium octaborate tetrahydrate, Sodium octaborate, Boron sodium oxide tetrahydrate, Boric acid disodium salt tetrahydrate, DOT

MANUFACTURER: InCide® Technologies, Inc.
ADDRESS: 50 N 41st Ave
Phoenix, AZ 85009

EMERGENCY PHONE: (602) 233-0756
CHEMTREC PHONE: (800) 424-9300

RECOMMENDED USE: Industrial manufacturing, flame retardant

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Reproductive Toxicity Category 2

HAZARD PICTOGRAM:



SIGNAL WORD: Warning

HAZARD STATEMENTS:

H361: Suspected of damaging fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

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

P281: Use personal protective equipment as required.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with local regulation.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Disodium octaborate tetrahydrate	12280-03-4	>99.0%	No

SECTION 4: FIRST AID MEASURES

EYES: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

SKIN: No treatment necessary.

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

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

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: 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 diarrhea, with delayed effects of skin redness and peeling. 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,

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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.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable. Disodium octaborate tetrahydrate is itself a flame retardant.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Disodium octaborate tetrahydrate is not flammable, combustible or explosive.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL: Disodium octaborate tetrahydrate is a water-soluble white powder that may cause damage to trees or vegetation by root absorption. Avoid spillage into water and cover drains.

LAND SPILL: Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. No personal protective equipment is needed to clean up land spills.

WATER SPILL: Where possible, remove any intact containers from the water. 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.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Good housekeeping procedures should be followed to minimize dust generation and accumulation. Avoid spills. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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 minimize caking of the product, bags should be handled on a "first-in first-out" basis.

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

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL-TWA: 15 mg/m³ total boric acid dust and 5 mg/m³ respirable dust

ACGIH TLV-TWA-OEL: 2 mg/m³ inhalable boric acid particles

CalOSHA PEL-TWA: 5 mg/m³ total boric acid dust

ENGINEERING CONTROLS AND VENTILATION: Use local exhaust ventilation to keep airborne concentrations of boric acid dust below permissible exposure limits.

RESPIRATORY PROTECTION: Where airborne concentrations are expected to exceed exposure limits, respirators should be used.

EYE PROTECTION: Eye protection according to ANSI Z.87.1 or other national standards may be warranted if environment is excessively dusty.

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

SECTION 8 NOTES: Boric acid is listed/regulated by OSHA, Cal OSHA, and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust." PEL: Permissible Exposure Limit, TLV: Threshold Limit Value, TWA: Time Weighted Average, OEL: Occupational Exposure Limit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, crystalline powder

ODOR: Odorless

ODOR THRESHOLD: Not applicable

pH AT AS SUPPLIED: 8.3 (3.0% solution); 7.6 (10.0% solution) at 20°C

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MELTING POINT/FREEZING POINT: 815°C

BOILING POINT AND BOILING RANGE: Not applicable: melting point 815°C

FLASH POINT: Not applicable: inorganic substance

EVAPORATION RATE: not applicable: non-volatile

FLAMMABILITY: Non-flammable: used as a flame retardant

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable: non-flammable

VAPOR PRESSURE: Not applicable: melting point 815°C

VAPOR DENSITY: Not applicable: melting point 815°C

RELATIVE DENSITY: 1.87 at 22°C

SOLUBILITY IN WATER: Yes (223.65 g/L at 20°C)

PARTITION COEFFICIENT; n-octanol/water: Not applicable: inorganic substance

AUTO-IGNITION TEMPERATURE: Not applicable: not self-heating

DECOMPOSITION TEMPERATURE: Not applicable: melting point 815°C

VISCOSITY: Not applicable: solid substance

EXPLOSIVE PROPERTIES: Not explosive: does not contain chemical groups associated with explosive properties

OXIDISING PROPERTIES: Not oxidizing: does not contain chemical groups associated with oxidizing properties

MOLECULAR WEIGHT: 412.52

Section 9 Notes: Chemical formula: $\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

STABILITY: Under normal ambient temperatures (-40°C to +40°C), disodium octaborate tetrahydrate is stable.

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.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None.

SECTION 11: TOXICOLOGICAL INFORMATION

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. Board Defense® is not intended for ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, AND CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: Boric acid is *not* intended for ingestion. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects. 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 diarrhea, with delayed effects of skin redness and peeling.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE: 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.

ACUTE TOXICITY:

Method: Acute Oral Toxicity Study – OECD Guideline 401

Species: Rat

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Dose: 2000 – 5000 mg/kg body weight

Routes of Exposure: Oral

Results: Low acute oral toxicity. The oral LD₅₀ value in male rats is 3,450 mg/kg bw, and in female rats is 4080 mg/kg bw.

Classification: Acute Toxicity (Oral) Category 5 (Hazard statement: H303: May be harmful if swallowed)

Method: Acute Dermal Toxicity Study – U.S. EPA FIFRA Guidelines

Species: Rabbit

Dose: 2,000 mg/kg bw

Routes of Exposure: Dermal

Results: Low acute dermal toxicity; LD₅₀ in rabbits is > 2,000 mg/kg of body weight. Poorly absorbed through intact skin.

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

Method: Acute Inhalation Toxicity Study – OECD Guideline 403

Species: Rat

Dose: 2.12 mg/L

Routes of Exposure: Inhalation

Results: Low acute inhalation toxicity; LC₅₀ in rats is > 2.0 mg/l (or g/m³). Based on the available data, the classification criteria are not met.

SKIN CORROSION / IRRITATION:

Method: Primary Dermal Irritation Study – U.S. EPA FIFRA Guidelines

Species: New Zealand White Rabbit

Dose: 0.5 g moistened with saline

Routes of Exposure: Dermal

Results: No skin irritation. Mean Primary Irritation Score: 0.1. Based on the available data, the classification criteria are not met.

SERIOUS EYE DAMAGE / IRRITATION:

Method: Eye Irritation Study – similar to OECD Guideline 405

Species: New Zealand White Rabbit

Dose: 0.1 g

Routes of Exposure: Eye

Results: Not irritating, corneal involvement or irritation clearing in 7 days.

Classification: Based on mean scores < 1, and the effects were fully reversible within 7 days, the classification criteria are not met. Many years of occupational exposure indicate no adverse effects on human eye.

RESPIRATORY OR SKIN SENSITISATION:

Method: Buehler Test – OECD Guideline 406

Species: Guinea Pig

Dose: 0.4 g 95 % w/w/boric acid

Routes of Exposure: Dermal

Results: Not a skin sensitizer. 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.

GERM CELL MUTAGENICITY:

Method: Several *in vitro* mutagenicity studies have been carried out on boric acid including gene mutation in mammalian cells, unscheduled DNA synthesis, chromosomal aberration and sister chromatid exchange in mammalian cells.

Species: L5178Y mouse lymphoma, V79 Chinese hamster cells, C3H/10T1/2 cells, hepatocytes, Chinese hamster ovary (CHO cells).

Dose: 1.0 - 10.0 mg/ml (1000 -10000 ppm) boric acid

Routes of Exposure: *in vitro*

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

CARCINOGENICITY:

Method: OECD 451 equivalent.

Species: B6C3F1 mice

Dose: 446, 1150 mg boric acid/kg bw/day

Routes of Exposure: Oral feeding study

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

REPRODUCTIVE TOXICITY:

Method: Three-generation feeding study, similar to OECD 416 Two-Generation Study

Species: Rat

Dose: 0; 34 (5.9); 100 (17.5) and 336 (58.5) mg boric acid (mg B)/kg bw/day

Routes of Exposure: Oral feeding study

Results: NOAEL in rats for effects on fertility in males is 100 mg boric acid/kg bw equivalent to 17.5 mg B/kg bw.

Method: Prenatal Developmental Toxicity Study of Boric Acid – OECD Guideline 414

Species: Rat

Dose: 0; 19 (3.3); 36 (6.3); 55 (9.6); 76 (13.3) and 143 (25) mg boric acid (mg B)/kg bw.

Routes of Exposure: Oral feeding study

Results: NOAEL in rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55 mg boric acid/kg bw or 9.6 mg B/kg.

Classification: Reproductive Toxicity Category 2 (Hazard statement: H361: Suspected of damaging fertility or the unborn child.)

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Method: Occupational studies of evaluating sensitive sperm parameters in highly exposed borate workers. Epidemiological studies evaluating high environmental exposures to boron and developmental effects in humans have been conducted.

Species: Human

Dose: A subset of workers was exposed to 125 mg B/day.

Routes of Exposure: Combined oral ingestion and inhalation

Results: 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.

STOT-SINGLE EXPOSURE:

Method: Standard Test Method for Estimating Sensory Irritancy of Airborne Chemicals – ASTM E981-04 (2004)

Species: Mouse

Dose: 221 - 1096 mg boric acid/m³

Routes of Exposure: Inhalation

Results: The highest concentration of boric acid that was achievable with acceptable control of the aerosol concentration was 1096 mg/m³ with a %RD of 19%. The lowest exposure tested of 221 mg/m³ boric acid resulted in a reduced respiration rate of 9%, graded as no irritation. Based on the available data, the classification criteria are not met.

Method: Sensory irritation in human volunteers

Species: Human

Dose: 2.5, 5, 10 mg boric acid/m³

Routes of Exposure: Inhalation

Results: No irritation from boric acid was observed at exposures up to 10 mg/m³ among male and female human volunteers under controlled laboratory conditions.

STOT-REPEATED EXPOSURE:

Method: Chronic toxicity study of boric acid, similar to OECD 452

Species: Rat

Dose: 0; 33 (5.9); 100 (17.5); 334 (58.5) mg boric acid (B)/kg bw per day (nominal in diet)

Routes of Exposure: oral: feed

Results: A NOAEL of 17.5 mg B/kg bw/day equivalent to 100 mg boric acid/kg bw/day was determined in a chronic feeding study (2 years) in rats and is based on testes effects. Other effects (kidney, hemopoietin system) are regarded only at even higher dose levels. Based on the available data, the classification criteria are not met.

ASPIRATION HAZARD: Physical form of solid powder indicates no aspiration hazard potential.

SECTION 11 NOTES: The information in this section is based on boric acid.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (AQUATIC AND TERRESTRIAL, WHERE AVAILABLE):

Note that the data values are expressed as boron equivalents. Studies judged to be unreliable or with insufficient information to evaluate are not included.

FRESHWATER:

Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Algal	4	10 mg B/L (<i>Chlorella pyrenoidosa</i>) to 50 mg B/L (<i>Anacystis nidulans</i>)	3, 4
Higher plants	3	4.0 mg B/L (<i>Phragmites australis</i>) to 60 mg B/L (<i>Lemna minor</i>)	5, 6
Invertebrate and protozoan	7	5.7 mg B/L (<i>Daphnia magna</i>) to 32 mg B/L (<i>Chironomus riparius</i>)	7, 8
Fish	6	2.9 mg B/L (<i>Micropterus salmoides</i>) to 17 mg B/L (<i>Carassius auratus</i>)	9
Amphibian	2	29 mg B/L (<i>Rana pipiens</i>) to 41 mg B/L (<i>Bufo fowleri</i>)	9

Results²: Based on the complete data set of 22 species, the HC₅ value of the species sensitivity distribution is 4.05 mg B/L.

Acute studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Algal	2	10 mg B/L (<i>Chlorella pyrenoidosa</i>) to 28 mg B/L (<i>Selenastrum capricornutum</i>)	3, 10

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Invertebrate and protozoan	9	113 mg B/L (<i>Ceriodaphnia dubia</i>) to 1376 mg B/L (<i>Chironomus decorus</i>)	11, 12
Fish	7	80 mg B/L (<i>Pimephales promelas</i>) to 627 mg B/L (<i>Onchorhynchus tshawytscha</i>)	11, 13
Amphibian	2	86 mg B/L (<i>Rana pipiens</i>) to 104 mg B/L (<i>Bufo fowleri</i>)	9

Results²: Based on the complete data set from 46 studies with 20 species, the HC₅ value of the species sensitivity distribution is 27.3 mg B/L

Classification: Based on the acute data for freshwater species, this substance is not classified as hazardous to the environment.

MARINE AND ESTUARINE DATA:

Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Algal	19	5 mg B/L (<i>Emiliana huxleyi</i>) to >100 mg B/L (<i>Agmenellum quadruplicatum</i> , <i>Anacystis marina</i> , <i>Thalassiosira pseudonana</i>)	4

Results: No data are available for invertebrate or vertebrate species. The results from the freshwater data set are recommended as applicable to marine and estuarine species.

Acute studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Invertebrate	3	45 mg B/L (<i>Litopenaeus vannamei</i>) to 83 mg B/L (<i>Americamysis bahia</i>)	14, 15
Fish	2	74 mg B/L (<i>Limanda limanda</i>) to 600 mg B/L (<i>Oncorhynchus tshawytscha</i>)	13, 16

No data are available for algal species.

SEDIMENT:

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Invertebrate	1	82.4 mg B/kg sediment dw (<i>Chironomus riparius</i>)	17, 18

Results: Although limited, the data suggest that sediment organisms are within range of toxicity of aquatic organisms. In addition, the substance will not partition to the sediment, so a sediment/water partitioning approach is justified.

SEWAGE TREATMENT PLANTS (STP):

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Activated sludge	NA	>17.5 mg B/L to 100 mg B/L	19
Microbes	3	10 mg B/L (<i>Opercularia bimarginata</i>) to 20 mg B/L (<i>Paramecium caudatum</i>)	20

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TERRESTRIAL DATA:

Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Plant	28	7.2 mg B/kg dw (<i>Zea mays</i>) to 56 mg B/kg dw (<i>Allium cepa</i>)	21, 22
Invertebrates	9	15.4 mg B/kg dw (<i>Folsomia candida</i>) to 87 mg B/kg dw (<i>Caenorhabditis elegans</i>)	23, 24
Soil micro	3	12 mg B/kg dw (nitrogen mineralization and nitrification test) to 420 mg B/kg dw (soil nitrogen transformation test)	25, 26

Results²: Based on the complete data set, the HC₅ value of the species sensitivity distribution is 10.8 mg B/kg dw.

PHYTOTOXICITY: Boron is an essential micronutrient for healthy growth of plants. It can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimize the amount of borate product released to the environment.

PERSISTENCE AND DEGRADABILITY: Biodegradation is not an applicable endpoint since the product is an inorganic substance.

BIOACCUMULATIVE POTENTIAL: This product will undergo hydrolysis in water to form undissociated boric acid. Boric acid will not biomagnify through the food chain. Octanol/Water partition coefficient: Log P_{ow} = -0.7570 @ 25°C (based on boric acid)²⁷.

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

OTHER ADVERSE EFFECTS: None.

SECTION 12 NOTES: The information in this section is based on other borates and is normalized to boron content. Boron is the element in sodium polyborate which is used to characterize borate product ecological effects.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: No special disposal treatment is required, but refer to state and local regulations for applicable site-specific requirements. Tonnage quantities of product are not recommended to be sent to landfills. Such product should, if possible, be re-used for an appropriate application. Product packaging should be recycled where possible. Avoid spillage into water and cover drains.

RCRA HAZARD CLASS: Disodium octaborate tetrahydrate is not listed under any section of the Federal Resource Conservation and Recovery Act (RCRA).

California Hazardous Waste Designation: California identifies substances with acute oral, acute dermal, or acute inhalation LD₅₀s less than 2,500, 4,300, or 10,000 mg/kg, respectively as "hazardous wastes." Additionally, the aquatic LC₅₀ is less than 500 mg/L, the chemical is considered a "hazardous waste." Disodium octaborate tetrahydrate is therefore a "hazardous waste" if spilled in California, and should be handled in accordance with applicable state regulations. Refer to Regulatory Information for additional information.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: The product is not a US Department of Transportation (DOT) Hazardous Material.

OTHER AGENCIES: The product has no UN Number and is not regulated under international rail, highway, water, or air transport regulations.

SECTION 15: REGULATORY INFORMATION

CLEAN AIR ACT (MONTREAL PROTOCOL) - SUBSTANCES THAT DEplete THE OZONE LAYER: Disodium octaborate tetrahydrate is not manufactured with and does not contain any Class I or Class II ozone depleting substances.

REGULATION (EC) NO 689/2008 - EXPORT AND IMPORT OF DANGEROUS CHEMICALS: Disodium octaborate tetrahydrate is not listed.

U.S. EPA RCRA: Disodium octaborate tetrahydrate is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 *et seq*).

SUPERFUND: CERCLA/SARA. Disodium octaborate tetrahydrate is not listed under CERCLA (Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA (Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65, Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

SAFE DRINKING WATER ACT (SDWA): Disodium octaborate tetrahydrate is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 *et seq*. Consult state and local regulations for possible water quality advisories regarding boron compounds.

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CLEAN WATER ACT (CWA) (FEDERAL WATER POLLUTION CONTROL ACT): 33 USC 1251 *et seq.*

- a) Disodium octaborate tetrahydrate is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.
- b) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.
- c) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

IARC: The International Agency for Research on Cancer (IARC) (a unit of the World Health Organization) does not list or categorize disodium octaborate tetrahydrate as a carcinogen.

NTP BIENNIAL REPORT ON CARCINOGENS: Disodium octaborate tetrahydrate is not listed.

OSHA CARCINOGEN: Disodium octaborate tetrahydrate is not listed.

CALIFORNIA PROPOSITION 65: Disodium octaborate tetrahydrate is not listed on the Proposition 65 list of carcinogens or reproductive toxicants.

CHEMICAL INVENTORY LISTING: The listing is sometimes under the Inventory number of the anhydrous form of this inorganic salt.

U.S. EPA TSCA Inventory:	12008-41-2
Canada DSL:	12008-41-2
EINECS:	234-541-0
Australia AICS:	12008-41-2
China IECSC:	12008-41-2
Japanese METI & ISHL:	(1)-69
New Zealand NZIoC:	12008-41-2
Philippines PICCS:	12008-41-2
South Korea KECl:	KE-12358

SECTION 16: OTHER INFORMATION

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OTHER INFORMATION: This SDS was finalized on January 26, 2018 and is compliant with OSHA HCS/HazCom 2012 Final Rule. This replaces the previous version dated April 21, 2017.

DISCLAIMER: Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.