Printing date 05/29/2024

\*

\*

Reviewed on 05/29/2024

Trade name: <u>Sodium Bora</u>	te Decahydrate, Laboratory Grade Granular	
Article number: S2570		
CAS Number:		
1303-96-4 EC number:		
215-540-4		
Index number:		SOLUTIONS
005-011-00-4		
Details of the supplier of th	e safety data sheet	
Manufacturer/Supplier:		
Aqua Solutions, Inc. 6913 Highway 225		
<i>DEER PARK, TX 77536</i>		
USA		
800-256-2586		
Information department:		
Technical Coordinator		
Sherman Nelson shermann( Technical Coordinator	Daquasolutions.org	
Sherman Nelson shermann	Daguasolutions org	
Emergency telephone num		
Chemtrec: 800-424-9300		
Canutec: 613-996-6666		
Hazard(s) identificatio	n	
Classification of the substa	nce or mixture	
GHS06 Skull and	crossbones	
	crossbones	
GHS06 Skull and		
GHS06 Skull and	1 H330 Fatal if inhaled.	
GHS06 Skull and Acute Toxicity - Inhalation	1 H330 Fatal if inhaled.	
GHS06 Skull and Acute Toxicity - Inhalation	1 H330 Fatal if inhaled.	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha	1 H330 Fatal if inhaled. uzard	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha	1 H330 Fatal if inhaled. uzard	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha Toxic to Reproduction 1B	1 H330 Fatal if inhaled. uzard	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha Toxic to Reproduction 1B	1 H330 Fatal if inhaled. uzard	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha Toxic to Reproduction 1B GHS07	1 H330 Fatal if inhaled. uzard H360 May damage fertility or the unborn child	
GHS06 Skull and Acute Toxicity - Inhalation GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Dermal 4	1 H330 Fatal if inhaled. Izard H360 May damage fertility or the unborn child H312 Harmful in contact with skin.	

Printing date 05/29/2024

Reviewed on 05/29/2024

Frade name: Sodium Borate Decahydrate, Laboratory Grade Granular		
· Hazard pictograms		
GHS06 GHS07 GHS08		
· Signal word Danger		
· Hazard statements		
Harmful in contact with skin.		
Fatal if inhaled.		
Causes skin irritation.		
Causes serious eye irritation.		
May damage fertility or the unborn child.		
· Precautionary statements		
Obtain special instructions before use.		
Do not handle until all safety precautions have been read and understood.		
Do not breathe dust/fume/gas/mist/vapors/spray.		
Wash thoroughly after handling.		
Use only outdoors or in a well-ventilated area.		
Wear protective gloves/protective clothing/eye protection/face protection.		
[In case of inadequate ventilation] wear respiratory protection.		
If on skin: Wash with plenty of water.		
IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
Continue rinsing.		
Immediately call a poison center/doctor.		
IF exposed or concerned: Get medical advice/attention.		
Specific treatment is urgent (see on this label).		
Take off contaminated clothing and wash it before reuse.		
If skin irritation occurs: Get medical advice/attention.		
If eye irritation persists: Get medical advice/attention.		
Store in a well-ventilated place. Keep container tightly closed.		
Store locked up.		
Dispose of contents/container in accordance with local/regional/national/international regulations.		
· Classification system:		
· NFPA ratings (scale 0 - 4)		
Health = 1		
Fire = 0		
$\frac{1}{1} \frac{0}{Reactivity} = 0$		
$\mathbf{V} = \mathbf{V}$		
· HMIS-ratings (scale 0 - 4)		
<b>HEALTH</b> 1 $H_{ealth} = 1$		
FIRE 0 $Fire = 0$		
<b>REACTIVITY</b> $0$ Reactivity = 0		
· Other hazards		
· Results of PBT and vPvB assessment		
· <b>PBT:</b> Not applicable.		
• <b>vPvB</b> : Not applicable.		
US		
(Contd on page 3)		

(Contd. on page 3)

Printing date 05/29/2024

Reviewed on 05/29/2024

Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

(Contd. of page 2)

### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 1303-96-4 Sodium Borate Decahydrate
- · Identification number(s)
- EC number: 215-540-4
- · Index number: 005-011-00-4

#### **4** First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- **PAC-1:** 6 mg/m<sup>3</sup>

(Contd. on page 4)

US

Printing date 05/29/2024

Reviewed on 05/29/2024

(Contd. of page 3)

#### Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

- **PAC-2:** 190 mg/m<sup>3</sup>
- · PAC-3: 1,100 mg/m<sup>3</sup>

## 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- $\cdot$  Components with limit values that require monitoring at the workplace:

## CAS: 1303-96-4 Sodium Borate Decahydrate

- REL Long-term value: 5 mg/m<sup>3</sup>
- TLV Short-term value: 6\* mg/m<sup>3</sup> Long-term value: 2\* mg/m<sup>3</sup> \*as inhalable fraction, A4

• Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
- · Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

 $(Contd. \ on \ page \ 5)$ 

US

Printing date 05/29/2024

Reviewed on 05/29/2024

(Contd. of page 4)

### Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

# 9 Physical and chemical properties

Information on basic physical and General Information	······································	
Appearance:		
Form:	Crystalline	
Color:	White	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	1.73 g/cm <sup>3</sup> (14.43685 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
<i>Water at 20 °C (68 °F):</i>	38.1 g/l	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	

US

Printing date 05/29/2024

Reviewed on 05/29/2024

Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

(Contd. of page 5)

• Other information

No further relevant information available.

### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11** Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

Dermal LD50 1,100 mg/kg (ATE)

Inhalative LC50/4h 0.005 mg/l (ATE)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 7)

Printing date 05/29/2024

Reviewed on 05/29/2024

Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

(Contd. of page 6)

## **13 Disposal considerations**

#### · Waste treatment methods

### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

## **14 Transport information**

· UN-Number · DOT, ADN, IMDG, IATA	Not regulated
· UN proper shipping name	
· DOT	Not regulated
201	Not regulated
· ADN, IMDG, IATA	Not regulated
· Transport hazard class(es)	
·DOT	Not applicable
· Class	Not regulated
· ADN/R Class:	Not regulated
· Packing group	
· DOT, IMDG, IATA	Not regulated
· Environmental hazards:	
• Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II o	f
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	Not regulated

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) I (oral)
- TLV (Threshold Limit Value) A4

(Contd. on page 8)

US

Printing date 05/29/2024

Reviewed on 05/29/2024

#### Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

(Contd. of page 7)

· NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS06 · Signal word Danger · Hazard statements Harmful in contact with skin. Fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. Specific treatment is urgent (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:
- Date of Preparation / Last Revision: • Date of preparation / last revision
- Revision 1.2, 05/28/2024: Reviewed SDS for accuracy. MH/STN 05/29/2024 • Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 9)

US

Printing date 05/29/2024

Reviewed on 05/29/2024

# Trade name: Sodium Borate Decahydrate, Laboratory Grade Granular

	(Contd. of page 8)
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Toxicity - Dermal 4: Acute toxicity – Category 4	
Acute Toxicity - Inhalation 1: Acute toxicity – Category 1	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B	
* Data compared to the previous version altered.	