



Version: 1.0

Revision date: 06.12.2019

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation: Product No.: Synonymes: CAS No. di-Sodium tetraborate decahydrate laboratory reagent B0240 Borax 1303-96-4

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

Relevant identified uses:

General chemical reagent

1.3 Details of the supplier of the safety data sheet

Supplier

Avantor Performance Materials India Ltd. Street Postal code/city Telephone	501, 5th floor, Tiffany Building, Hiranandani Business Park, Thane, Maharashtra - 400607, India 022-41288100
Emergency phone number	
Telephone	1800105561
Preparation Information Product Information Compliance	
1.4 E-mail	SDS@avantorsciences.com



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SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

health hazards

Reproductive toxicity, category 1B

2.2 Label elements

Hazard pictograms



Signal word: Danger May damage fertility. May damage the unborn child.

2.3 Other hazards none

SECTION 3: Composition / information on ingredients

Substances

Substance name	di-Sodium tetraborate decahydrate
Molecular formula	$Na_2B_4O_7.10H_2O$
Molecular weight	381.37 g/mol
CAS No.	1303-96-4

SECTION 4: First aid measures

4.1 General information

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Call a POISON CENTRE/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.





In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

4.2 Most important symptoms and effects, both acute and delayed no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

no data available

SECTION 5: Firefighting measures

5 1 Extinguishing media

Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons

no restriction

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. In case of fire: Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.





SECTION 7: Handling and storage

Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation

skin contact

Eye contact

Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Store in a tightly closed container. Keep container tightly closed and in a well-ventilated place.

Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

Appropriate engineering controls

no data available

Personal protection equipment

no data available

Eye/face protection no data available

Skin protection no data available

By short-term hand contact Suitable material:

Thickness of the glove material: Breakthrough time (maximum wearing time): NBR (Nitrile rubber) 0,12 mm > 480 min

By long-term hand contact Suitable material: Thickness of the glove material: Breakthrough time (maximum wearing time):

NBR (Nitrile rubber) 0,38 mm > 480 min

Respiratory protection no data available

Additional information no data available

Environmental exposure controls no data available



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state:	solid
Colour:	white
(b) Odour:	no data available
(c) Odour threshold:	no data available

Safety relevant basic data

(d) pH:	9.2 (47 g/l; H2O; 20 °C)		
(e) Melting point/freezing point:	75 °C		
(f) Initial boiling point and boiling range:	320 °C (1013 hPa)		
(g) Flash point:	no data available		
(h) Evaporation rate:	no data available		
(i) Flammability (solid, gas):	not applicable		
(j) Flammability or explosive limits			
Lower explosion limit:	no data available		
Upper explosion limit:	no data available		
(k) Vapour pressure:	0.2 hPa (20 °C)		
(I) Vapour density:	no data available		
(m) Relative density:	1.73 g/cm³ (20 °C)		
(n) Solubility(ies)			
Water solubility (g/L):	51 g/l (20 °C)		
Soluble (g/L) in Ethanol:	no data available		
(o) Partition coefficient: n-octanol/water:	no data available		
(p) Auto-ignition temperature:	no data available		
(q) Decomposition temperature:	no data available		
(r) Viscosity			
Kinematic viscosity:	no data available		
Dynamic viscosity:	no data available		
(s) Explosive properties:	not applicable		
(t) Oxidising properties:	not applicable		

9.2 Other information

Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).



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10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity: LD50: > 2660 mg/kg - Rat - (RTECS)

Acute dermal toxicity: LD50: < 2000 mg/kg - Rabbit - (IUCLID)

Acute inhalation toxicity: no data available

Irritant and corrosive effects

Primary irritation to the skin: not applicable

Irritation to eyes: not applicable

Irritation to respiratory tract: not applicable

Respiratory or skin sensitisation

In case of skin contact: not sensitising After inhalation: not sensitising

STOT-single exposure

not applicable

STOT-repeated exposure not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

May damage fertility. May damage the unborn child.





Aspiration hazard

not applicable

Other adverse effects no data available

SECTION 12: Ecological information

12.1 Ecotoxicity

Fish toxicity: no data available

Daphnia toxicity:

LC50: 141 mg/l (48 h) - Maier, K.J. 1990. The Toxicity and Bioaccumulation of Selenium and Boron to Daphnia magna and Chironomus decorus. Ph.D.Thesis, Univ.of California, Davis, CA :191 p.

Algae toxicity:

EC50: 15.4 mg/l (96 h) - Hickey, C.W., C. Blaise, and G. Costan 1991. Microtesting Appraisal of ATP and Cell Recovery Toxicity End Points After Acute Exposure of Selenastrum capricornutum to Selected Chemicals. Environ.Toxicol.Water Qual. 6(4):383-403

Bacteria toxicity:

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

no data available

12.6 Other adverse effects

no data available



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SECTION 16: Other information

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe) CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures DFG - German Research Foundation (Deutsche Forschungsgemeinschaft) Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung) IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health OSHA - Occupational Safety & Health Administration PBT - Persistent, Bioaccumulative and Toxic RID - Regulation concerning the International Carriage of Dangerous Goods by Rail STV - Short Term Value SVHC - Substances of Very High Concern vPvB - very Persistent, very Bioaccumulative

Additional information	
Indication of changes:	none

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