

SODIUM TETRABORATE 10-HYDRATE

Section 1: Chemical Product and Company Identification

1.1 Product identifier

Product Name: Sodium Tetraborate 10-hydrate

Material No. 9064XXXXXXXXX

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

Relevant identified uses: Technical, Pharma 1.3 Details of the supplier of the safety data sheet

CHEMICAL ELEMENTS UKRAINE, LLC

Khimikov avenue, 74, Cherkassy, 18028, Ukraine

+38 0472 59 02 28 hello@chemelements.life www.chemelements.life

1.4 Emergency telephone number

+49 40 333 13 237

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Eye irritation, Category 2, H319

Reproductive toxicity, Category 1B, H360FD

2.2 Label elements

Pictogram:





Signal Word: DANGER

Hazard Statements: H360FD May damage fertility. May damage the unborn child.

H319 Causes serious eye irritation.

Precautionary statements: P201 Obtain special instructions before use.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

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

Section 3: Composition and Information on Ingredients

3.1 Sunstance

Chemical name: Sodium Tetraborate 10-hydrate

Formula: N₂B₄O₇•H₂O CAS No. 1303-96-4 EC No. 215-540-4

3.2 Hazardous components (REGULATION (EC) No 1272/2008)

Component CAS No. WP, %

Sodium Tetraborate 10-hydrate 1303-96-4 99,5-102,5

3.5 Mixture Not applicable



Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation: Fresh air. Call in physician.

Ingestion: Immediately make victim drink water (two glasses at most). Consult a

physician.

Skin: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Call in physician.

Eye contact: Rinse out with plenty of water. Remove contact lenses. Call in ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects. The following applies to boron compounds in general:

Symptoms: resorption is followed by nausea and vomiting, agitation, spasms, CNS

disorders, cardiovascular disorders.

4.3 Indication of any immediate medical attention and special treatment needed

No information available

Section 5: Fire fighting measures

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

No information available

5.3 Advice for firefighters

Not combustible. In a fire situation, wear self-contained positive pressure breathing apparatus and protective clothing from resistant materials.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing. Wear protective clothing specified for normal operations (see Section 8).

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Substance collect in a closed identified container, using a dry method. Avoid dust. Rinse contaminated surface with detergent and water.

6.4 Reference to other sections

Disposal (see Section 13).

Section 7: Handling and Storage

7.1 Precautions for safe handling

Change contaminated clothing immediately; wash hands and face after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in covered, dry warehouses in original tightly closed packaging.

7.3 Specific end use(s)

No information available

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits. The level of protection and types of controls will vary depending upon potential exposure conditions.



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8.2 Exposure controls

Safety glasses with side-shields. Eye/face protection:

Wear tightly fitting protective clothing (protective gloves, dustproof Skin and body protection:

clothing and special footwear). Recommended Glove material: Nitrile

rubber 0,11 mm.

Respiratory Protection: Respiratory protection necessary at: Dust formation. Recommended

Filter type: Filter P3.

Section 9: Physical and Chemical Properties

Form: Solid

Appearance: Transparent colorless crystals or crystalline powder

Odour: Odourless.

75 °C (elimination of water of crystallization) **Melting Point:**

Boiling point: Not applicable

Decomposition $>75^{\circ}C$ (-10H₂O, 20°C) temperature:

49,74 q/l (20°C) Solubility in Water:

Organic Solubility

It dissolves well in glycerin, poorly in alcohol. Solvents: Specific Gravity: 1,72 g/cm³ (20°C)

pH: 9-10 (4% solution, 20°C, H₂O)

Molecular Weight: 381,36

Partition coefficient: n-

octanol/water:

Flammability:

No information available

Non-combustible material.

Vapor pressure: No information available

Section 10: Stability and Reactivity Data

10.1 Reactivity

See 10.3

10.2 Chemical stability

Releases water of crystallisation when heated

10.3 Possibility of hazardous reactions

Violent reactions possible with strong oxidising agents, Acids, metallic salts.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

See 5.2

Section 11: Toxicological Information

Acute Toxicity: LD₅₀>2500 mg/kg (rat, oral, disodium tetraborate pentahydrate).

Inhalation: LD₅₀>2,04 mg/l (rat, 4 h, disodium tetraborate pentahydrate).

Symptoms: Possible damages:, mucosal irritations, Irritation symptoms

in the respiratory tract

Skin: No irritation (rabbit)

Eye: Causes serious eye irritation (rabbit, eye irritation, OECD Test Guideline

No information available Carcinogenicity: No information available Mutagenicity:

Reproductive toxicity: May damage the unborn child. May damage fertility.



Specific target organ No information available

toxicity - single exposure:

Specific target organ No information available

toxicity - repeated

Aspiration hazard:

exposure:

No information available

See 4.2 Systemic effects:

Section 12: Ecological Information

12.1 Acute toxicity

For fish: LC₅₀=630 mg/l (Carassius auratus (goldfish), 72 h).

For Daphnia magma: $EC_{50}=1,085-1,402$ mg/l (48 h). For algae: $IC_{50}=158$ mg/l (Desmodesmus subspicatus (green algae), 96 h).

12.2. Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

Herbicide. Discharge into the environment must be avoided

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

Section 14: Transport Information

14.1 UN number

Not dangerous goods

14.2 UN proper shipping name

Not dangerous goods

14.3 Transport hazard class(es)

Land transport (ADR/RID): Not classified as dangerous in the meaning of transport regulations Air transport (IATA): Not classified as dangerous in the meaning of transport regulations

Sea transport (IMDG): Not classified as dangerous in the meaning of transport regulations

14.4 Packaging group:

Not dangerous goods

Section 15: Other Regulatory Information

Chemical Safety Assessment: No information



Section 16: Other Information

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