

Signal word	N/A		
Hazard statements	None		
Appearance	Aqueous solution	Physical State	Liquid
			Odor Odorless

Precautionary Statements - Prevention

None

Precautionary Statements - Response

None

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	
Disodium tetraborate decahydrate	1303-96-4	<1	
Sodium thiosulfate pentahydrate	10102-17-7	<5	
Deionized Water	7732-18-5	>94	

4. FIRST AID MEASURES

First aid measures

Eye Contact

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after first 5 minutes, then continue rinsing eye(s). Immediately get medical advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water. Rinse/flush exposed skin gently using water for 15 minutes. Get medical attention if irritation develops and persists.

Inhalation

Move to fresh air. If necessary, provide artificial respiration. Loosen clothing and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

Ingestion

Do **NOT** induce vomiting. Rinse thoroughly. Have exposed individual drink sips of water.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects

Irritation. Nausea. Headache. Shortness of breath.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, water spray, carbon dioxide (CO₂), foam.

Specific Hazards Arising from the Chemical

Irritating and toxic gases may be generated by thermal decomposition and combustion.

Unsuitable extinguishing media

No information available

Protective equipment and precautions for firefighters

For emergency responders, personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Transfer to a disposal. Isolate area. Keep unnecessary personnel away

Environmental Precautions

Prevent entry into waterways, sewers, basements, or confined areas. See Section 12 for additional ecological information.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

If necessary, use trained response staff or contractor. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Clean up spills immediately observing precautions. Always obey local regulations.

Methods and material for containment and cleaning up

If necessary, use trained response staff or contractor. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Clean up spills immediately observing precautions. Always obey local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear impermeable and resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Odor	Odorless
Appearance	Aqueous Solution	Odor Threshold	No information available
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	Not Determined	None known
Melting/freezing point	Approximately 0°C	None known
Boiling point / boiling range	Approximately 100°C	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	Approximately 1	None known
Specific Gravity	Not determined	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	None known
Oxidizing properties	No data available	None known

10. STABILITY AND REACTIVITY

Reactivity

None under normal processing.

Chemical stability

Stable under recommended storage conditions. Light Sensitive.

Possibility of Hazardous Reactions

Not determined

Conditions to avoid

Incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong reducing agents. Metal nitrates, lead, mercury, silver salts, acids, iodine, sodium nitrate.

Hazardous Decomposition Products

Borane oxides. Boron oxides. Sodium oxides. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral	1303-96-4	LD50 Rat: 4,500-5,000 mg/kg
Dermal	1303-96-4	LD50 Rabbit: 10,000 mg/kg
Oral	10102-17-7	LD50 Rat: 5,000 mg/kg

Chronic Toxicity:	No additional Information
Corrosion Irritation:	No additional Information
Sensitization:	No additional Information. None.
Single Target Organ (STOT):	No additional Information. None.
Numerical Measures:	No additional Information
Carcinogenicity:	No additional Information
Mutagenicity:	No additional Information. None.
Reproduce Toxicity:	No additional Information. None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish LC50 – *Carassius auratus* (goldfish) – 178 mg/l – 72H: 1303-96-4.

Invertebrates EC50 – *Daphnia magna* (Water flea) – 1,085 – 1,402 mg/l – 48h: 1303-96-4

Algae IC50 – *Desmodesmus subspicatus* (green algae) – 158 mg/l – 96h: 1303-96-4

Persistence and Degradability

Readily biodegradable.

Bioaccumulation

No bioaccumulative..

Mobility in soil

None.

Other adverse effects

None.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dilute with water and flush to sewer. Dispose of contaminated gloves after use in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT

Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

None of the ingredients are listed

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

None of the ingredients are listed

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard	Flammability	Instability	Personal Protection
	1	0	0	X

Prepared By Technical Department

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6

Reference Annual Review

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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