

SAFETY DATA SHEET: pH 9.23 BUFFER SOLUTION

1. IDENTIFICATION

Product Name: pH 9.23 BUFFER SOLUTION
Synonyms:
Formula and Formula Weight: Mixture NA
Integra numbers beginning with:
Recommended Use: Industrial use
Restrictions on Use: No information

INTEGRA Chemical Company **24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)**
1216 6th Ave N
Kent WA 98032
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2. HAZARDS IDENTIFICATION

<u>OSHA Classification:</u>	<u>Hazard Category:</u>	<u>Hazard Statement:</u>
None identified	Not applicable	Not applicable

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Synonyms</u>	<u>CAS #</u>	<u>% Weight</u>
Water		07732-18-5	> 99.4
Sodium borate, decahydrate	Sodium tetraborate decahydrate; Borax; Borax 10 mol	01303-96-4	< 0.5
Thymol	6-Isopropyl-m-cresol; 3-Hydroxy-p-cymene; Isopropyl cresol	00089-83-8	< 0.03
Sodium hydroxide	Caustic soda; Lye; Soda lye; Sodium hydrate	01310-73-2	< 0.01

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: Wash with soap and water.
Ingestion: Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.
Additional notes:

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: None identified
Hazardous combustion products: None identified

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Absorb with sand or inert material. Sweep or scoop into a disposal container. Flush spill area with water.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong acids.
Storage and Handling: Store in a cool, dry area. Keep closed and protect containers from physical damage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Water	None identified
Sodium borate, decahydrate	ACGIH TWA: 2 mg/m3 ACGIH Ceiling: 6 mg/m3
Thymol	None identified
Sodium hydroxide	OSHA TWA: 2 mg/m3 ACGIH Ceiling: 2 mg/m3

Engineering Controls: Use general or local exhaust ventilation to meet TLV and PEL requirements.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety glasses.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid
Odor:	Odorless
Odor Threshold:	Not available
pH:	Not available
Melting/Freezing Point:	Not available
Initial Boiling Point and Boiling Range:	Not available
Flash Point:	Not available
Evaporation Rate:	Not available
Flammability:	Not available
Flammable or Explosive	Upper: Not available
Limits (% by volume in air)	Lower: Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Relative Density:	1.00 Water=1
Solubility:	Miscible with water
Partition Coefficient: n-octanol/water	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Reactivity:	No information available
Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur
Conditions to Avoid:	None identified
Incompatibles:	Incompatible with strong acids.
Decomposition Products:	None identified

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation:	None identified
Skin Contact:	None identified
Eye Contact:	None identified
Ingestion:	None identified
Chronic Effects:	None identified
Target Organs:	None identified
Additional Effects:	None identified
Reproductive Effects:	None identified
Carcinogenicity:	None identified

Toxicity Data:

Water	No information available	
Sodium borate, decahydrate	LD50 (intravenous, mouse)	1320 mg/kg
	LD50 (oral, rat)	5660 mg/kg
Thymol	LD50 (oral, rat)	980 mg/kg
Sodium hydroxide	Irritation (skin, human)	2% /24 hr
	Irritation (eye, rabbit)	Severe, 50 ug/24 hr
	Irritation (skin, rabbit)	Severe, 500 mg/24 hr

12. ECOLOGICAL INFORMATION

	<u>Aquatic Toxicity Data:</u>	<u>Terrestrial Toxicity Data:</u>
Water	No information available	No information available
Sodium borate, decahydrate	LC50 Carassius auratus: 178 mg/L - 72h; EC50 Daphnia magna: 1085 mg/L - 48h	IC50 Desmodesmus subspicatus: 158 mg/L - 96h
Thymol	LC50 Fathead minnow: 3.2-4.2 mg/L - 96h; EC50 Water flea: 1.7-3.2 mg/L - 96h	No information available
Sodium hydroxide	LC50 Mosquito fish: 125 mg/L - 96h; EC50 Daphnia: 40.38 mg/L - 48h	No information available
Persistence and degradability:	No information available	
Bioaccumulative potential:	No information available	
Mobility in soil:	No information available	
Other adverse effects:	No information available	

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is not a regulated material for domestic ground transportation.

Environmental hazards: No information available

Special precautions: No information available

Bulk transport: No information available

15. REGULATORY INFORMATION

Sodium borate, decahydrate is listed in the TSCA inventory.

Thymol is listed in the TSCA inventory.

Sodium hydroxide is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26698 rev 101 11.10.2017

NE = Not established, NA = Not applicable or Not available

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**** END OF SDS ****