SAFETY DATA SHEET
Nac-Pac Red TB Base Solution 2-4%

Printed: 03/14/2025
Revision: 03/21/2025
Supersedes Revision: 02/02/2023

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

Product Code: NAC-PAC RED

Product Name: Nac-Pac Red TB Base Solution 2-4%

Company Name: CalibreScientific US, Inc.
1311 SE Cardinal Ct Suite 170
Vancouver, WA 98683

Phone Number:
1 (360)260-2779

Web site address: Alphatecsystems.com

Email address: Regulatory@calibrescientific.com

Emergency Contact: INFOTRAC
International 00-1- (352)323-3500

Information: North America 1 (800)535-5053

Intended Use: For Laboratory Use Only

Product List Nac-Pac Red Base Solution 2-4%, Product Codes: 0004302, 0004303, 0004304, 0004305, 0004306, 0004307, 0004308, 0004309, 0004310, 0004311, 0004805, 0004810, 0004813, 0004815, 0004815S, 0004817, 0004817S, 0004819, 0004823, X000015, X000016, X000481, X000487, X004810, X004815, X004818.

2. Hazards Identification

Skin Corrosion/Irritation, Category 3

GHS Signal Word: **Warning**

GHS Hazard Phrases: H316 - Causes mild skin irritation.

GHS Precautionary Phrases: No phrases apply.

GHS Response Phrases: P332+313 - If skin irritation occurs, get medical advice/attention.

GHS Storage and Disposal Phrases: No phrases apply.

Inhalation: The toxicological properties of this substance have not been fully investigated. Inhalation of dust may cause respiratory tract irritation. May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Eye Contact: May cause eye irritation.

Ingestion: The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	1.8 -4.0 %
6132-04-3	Sodium citrate, dihydrate	No Data.
497-19-8	Sodium carbonate	0.0 -0.2 %
7647-14-5	Sodium chloride	0.0 -0.2 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.

In Case of Skin Contact: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

In Case of Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Signs and Symptoms Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Point: No data. Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: No data available.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear self contained breathing apparatus for fire fighting if necessary.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Avoid generating dusty conditions. Personal precautions.
Avoid dust formation.

Environmental precautions.
Do not let product enter drains.
Methods for cleaning up.
Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Precautions To Be Taken in Storing: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a cool, dry place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
6132-04-3	Sodium citrate, dihydrate	No data.	No data.	No data.
497-19-8	Sodium carbonate	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. For prolonged or repeated contact use protective gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use adequate ventilation to keep airborne concentrations low.

Work/Hygienic/Maintenance Practices: General industrial hygiene practice.

9. Physical and Chemical Properties

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: Red.
Odorless.

pH: No data.

Melting Point: No data.

Boiling Point: No data. / 0.0 mm Hg

Flash Point: No data. Estimate

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure: No data.

Vapor Density (vs. Air=1): No data.

Specific Gravity (Water=1): No data.

Solubility in Water: No data.

Saturated Vapor Concentration: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials, dust generation, Strong oxidants.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition or Byproducts:	Nitrogen oxides, Carbon monoxide, Carbon oxides.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: Experimental reproductive effects have been observed. Mutagenicity: Mutation data reported. Neurotoxicity: Other Studies:
Carcinogenicity/Other Information:	CAS# 3118-97-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed. Product. Observe all federal, state, and local environmental regulations. Contaminated packaging. Dispose of as unused product.

14. Transport Information

GHS Classification:	Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not regulated as a hazardous material.
UN Number:
Hazard Class: **TDG Classification:**

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not regulated as a hazardous material.
UN Number:
Hazard Class:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not dangerous goods.
UN Number: **Packing Group:**
Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not regulated as a hazardous material.
UN Number: **Packing Group:**
Hazard Class:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes NA	No
6132-04-3	Sodium citrate, dihydrate	No	No	No
497-19-8	Sodium carbonate	No	No	No
7647-14-5	Sodium chloride	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E
6132-04-3	Sodium citrate, dihydrate	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
497-19-8	Sodium carbonate	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
7647-14-5	Sodium chloride	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

16. Other Information

Revision Date:	03/21/2025	**Previous revision:**	02/02/2023
Preparer Name:	A. Frontella		

Additional Information About This Product: No data available.

Document & Change Control Number SDS0190.H.

Company Policy or Disclaimer: 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.