

Material Safety Data Sheet

Product Trade Name: **CHEM ALUM NSP 110**

ID: H712

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name: CHEM ALUM NSP 110

Manufacturer Information

Heatbath Corporation

P.O. Box 51048

Indian Orchard, MA 01151-5048

Contact Phone: (413) 452-2000

8:00 AM-5:00PM

CHEMTREC Emergency Phone: (800) 424-9300

24 Hours

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
001330-43-4	Sodium tetraborate	30-60
007722-88-5	Tetrasodium pyrophosphate	20-50
007631-99-4	Sodium nitrate	1-10
Proprietary	Surfactant	1-10

Additional Information:

This product is not considered hazardous as defined by 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview:

CAUTION! - Contact with this material can cause irritation to the skin, eyes and mucous membranes. This product contains a component which is an oxidizing agent.

Eye Contact:

This product may be severely irritating to the eyes.

Skin Contact:

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Skin Absorption:

Not expected for this product.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death.

Inhalation:

Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders, cardiovascular bone marrow or blood system diseases, may be aggravated by exposure to this product.

*** Section 4 - First Aid Measures ***

Eye Contact:

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Do not wear contact lenses when working with this chemical.

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Skin Contact:

If this solid chemical contacts the skin, dust it off immediately and then flush the contaminated skin with water. If irritation persists or develops, get medical attention.

Ingestion:

If this chemical has been swallowed, get medical attention immediately. Give victim several glasses of water to drink. Vomiting may occur spontaneously; do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation:

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary. If breathing difficulty persists or develops, get prompt medical attention.

*** Section 5 - Fire Fighting Measures ***

Flash Point:	Not applicable	Upper Flammable Limit (UFL):	Not applicable
Flammability Classification:	Nonflammable	Lower Flammable Limit (LFL):	Not applicable

Fire & Explosion Hazards:

This product contains a component that is an oxidizing agent.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters: Wear full protective clothing including self-contained breathing apparatus. Properly decontaminate all equipment after use.

*** Section 6 - Accidental Release Measures ***

Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.

Containment Procedures:

Stop the flow of material, if this can be done without risk. Wear appropriate protective equipment and clothing during clean up.

Clean-Up Procedures:

Sweep spill and transfer material into appropriate container(s) for disposal. Dispose of collected material according to local, state, and federal regulations.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid contact with eyes, skin and clothing. Avoid breathing dusts, vapors or mists of this product. This product is for industrial use only. Use with adequate ventilation. Do not take internally. Keep product away from organic solvents and other products containing easily oxidized functional groups.

Storage Procedures:

Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials. (For incompatible materials, see Section 10.)

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Sodium tetraborate (001330-43-4)

ACGIH: 1 mg/m³ TWA

NIOSH: 1 mg/m³ TWA

Tetrasodium pyrophosphate (007722-88-5)

ACGIH: 5 mg/m³ TWA

OSHA: 5 mg/m³ TWA

NIOSH: 5 mg/m³ TWA

Engineering Controls:

Set up ventilation to effectively remove and prevent buildup of any dust generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear appropriate eye protection to prevent eye contact.

Skin Protection:

Wear appropriate personal protective clothing to prevent skin contact. The worker should immediately wash the skin when it becomes contaminated.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, provide appropriate NIOSH/MSHA respiratory protection.

Personal Protective Equipment:

Provide eyewash fountains in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection.

Provide facilities for quickly drenching the body within the immediate work area for emergency use where there is a possibility of exposure. Depending on the specific circumstances, a deluge shower, a sink or hose could be considered adequate.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Solid	Appearance:	Off-white powder
Odor:	None	Vapor Pressure:	Not determined
Vapor Density:	Not applicable	Boiling Point:	Not applicable
Specific Gravity:	Not applicable	pH:	Not applicable
Viscosity:	Not applicable	VOC:	Not applicable
Solubility Water:	Moderate	Evaporation Rate:	Not determined
Percent Volatile:	Not applicable	Percent Solids:	100%

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

This product contains a component that is an oxidizing agent. Keep away from incompatible materials.

Incompatibility:

Avoid contact with organic materials, oils, greases, and any oxidizable materials.

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Decomposition Products:

Upon decomposition, this product may emit carbon monoxide, carbon dioxide and/or oxides of Nitrogen may be produced.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Tetrasodium pyrophosphate (007722-88-5)

Oral LD50 Rat : 4 gm/kg

Oral LD50 Mouse : 2980 mg/kg

Sodium nitrate (007631-99-4)

Oral LD50 Rat: 1267 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are on IARC or NTP lists.

Chronic Toxicity: No information available for the product.

Epidemiology: No information available for the product.

Neurotoxicity: No information available for the product.

Mutagenicity: No information available for the product.

Teratogenicity: No information available for the product.

Other Toxicological Information:

No information is available for the product.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium sulfate (007757-82-6)

Test & Species	Concentration	Conditions
LC50 (24-96 hr) fathead minnow	13500-14000 mg/L.	soft water.
LC50 (96 hr) bluegill sunfish	13-50 mg/L.	Static.
LC50 (96 hr) mosquito fish	17500 mg/L.	
LC50 (96 hr) water flea	4547 mg/L.	

Environmental Fate:

No data available for this product.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

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*** Section 14 - Transportation Information ***

US DOT Information

Proper Shipping Name Not DOT Regulated
Hazard Class
UN / NA Number
Packing Group
Product RQ (lb)

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312: **Acute:** Yes **Chronic:** No **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

No information available for the product.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA	RI
Sodium tetraborate	001330-43-4	Yes	Yes	Yes	Yes	No	Yes	No
Sodium nitrate	007631-99-4	No	Yes	Yes	No	Yes	Yes	Yes
Tetrasodium pyrophosphate	007722-88-5	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List, Domestic Substance List-Canada, and the European Inventory of Existing Commercial Chemical Substances (EINECS).

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium tetraborate	001330-43-4	1% item 1428 (315)
Tetrasodium pyrophosphate	007722-88-5	1% item 1536 (1462)
Sodium nitrate	007631-99-4	1% item 1452 (1211)

*** Section 16 - Other Information ***

NFPA Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Other:**
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Personal Protection:**
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

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MSDS Change History:

3/12/02: Rev.00/Control #MSDS0092; MSDS as issued by Chemtech Finishing Systems.

1/18/05: Chemtech Finishing Systems acquired by Heatbath Corporation.

1/31/06: Rev.02; Chemtech MSDS issued under new manufacturer: Heatbath Corporation.

Sec.1 - Manufacturer Information Updated

Sec.16 - MSDS Change History section added

Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Heatbath Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

This is the end of MSDS for CHEM ALUM NSP 110.