

# 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 - 5:00 PM

CHEMTREC Emergency Phone: (800) 424-9300  
24 Hours

CHEMTREC International: (703) 527-3887

**Recommended Use:** Non-silicated, caustic free, mildly alkaline granular cleanser

**Restrictions on Use:** See Incompatibility, Section 10

## \*\*\* Section 2 - Hazards Identification \*\*\*

**OSHA Hazard Communication Standard:** Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

**Hazard Classification:** Acute Aquatic Hazard Category 2 | Carcinogen Category 2 | Chronic Aquatic Hazard Category 2 | Germ Cell Mutagen Category 2 | Reproductive Toxicity Category 1B | Serious Eye Damage Category 1 | Skin Corrosion/Irritation Category 2

**Labeling:**



**Signal Word:**

**DANGER!**

**Hazard Statements:**

Causes skin irritation. Causes serious eye damage. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**PREVENTION:**

Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

**FIRST AID/IN CASE OF FIRE:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER Specific treatment Collect spillage. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**STORAGE:**

Store locked up.

**DISPOSAL:**

Dispose of contents/container in accordance with all local, regional, national and/or international regulations.

**Hazards Not Otherwise Classified:** N.A.

**Percent of Ingredients of Unknown Toxicity:** N.A.

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

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HAZARDOUS INGREDIENT	CAS #	PERCENT
SODIUM BORATE PENTAHYDRATE	12179-04-3	40 - 60% (T.S.)
TETRASODIUM PYROPHOSPHATE	7722-88-5	30 - 50% (T.S.)
SODIUM NITRATE	7631-99-4	1 - 10% (T.S.)
SURFACTANTS (T.S.)	MIXTURE (T.S.)	1 - 10% (T.S.)

T.S. = Trade Secret

\*per CFR 29, Part 1910.1200; ingredients listed only if deemed hazardous and comprise 1% or greater of the composition (0.1% or greater for carcinogens).

**Component Related Regulatory Information:** This product may be regulated, have exposure limits or other information identified.

## \*\*\* Section 4 - First Aid Measures \*\*\*

If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** Not determined  
**Flammable Limits:** Not determined

**Upper Flammable Limit:** Not determined  
**Lower Flammable Limit:** Not determined

**Extinguishing Media, PPE and Guidance for FireFighter:** There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area. Alert Fire Department and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses.

**Fire and Explosion Hazards:** Noncombustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes.

**Decomposition Products:** Oxides of phosphorus, sodium oxides, oxides of carbon, oxides of nitrogen

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

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

**Containment and Clean-Up Procedures:** Clean up waste regularly and abnormal spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Environmental hazard - contain spillage. Moderate hazard. CAUTION: Advise personnel in area.

## \*\*\* Section 7 - Handling and Storage \*\*\*

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**Handling and Storage Procedures:** Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Avoid storage with reducing agents. Phosphates are incompatible with oxidizing and reducing agents. Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides.

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

### Exposure Guidelines:

**A. General Product Information:** Follow all applicable exposure limits. Keep formation of airborne mists to a minimum.

### B. Component Exposure Limits:

CAS #	HAZARDOUS INGREDIENT	OSHA PEL(mg/m3)	ACGIH TLV(mg/m3)
12179-04-3	Sodium Borate Pentahydrate	N.E.	2
7722-88-5	Tetrasodium Pyrophosphate	N.E.	N.E.
Proprietary	Surfactant(s)	N.E.	N.E.
7631-99-4	Sodium Nitrate	N.E.	N.E.

\*OSHA-PEL and ACGIH-TLV are 8-Hour TWA unless otherwise noted.

\*per CFR 29, Part 1910.1200; ingredients listed only if deemed hazardous and comprise 1% or greater of the composition (0.1% or greater for carcinogens).

**Engineering Controls:** Set up ventilation to effectively remove and prevent buildup of any dust, vapor or mist 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. Remove wet or significantly contaminated work clothing and replace.

**Respiratory Protection:** If ventilation is not sufficient to effectively prevent buildup of dust, 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 \*\*\*

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**Physical State:** Granular  
**Color:** Off-white powder

**Odor Threshold:** None  
**pH:** Not Available  
**Specific Gravity:** N.A.  
**Evaporation Rate:** Not determined  
**Solubility Water:** Moderate  
**Viscosity:** Not applicable  
**Vapor Density:** Not determined  
**Vapor Pressure:** Not determined  
**Octanol-Water** N.E.

**Boiling Point:** Not applicable  
**Boiling Range:** Not applicable  
**Melting Point:** Not Available  
**Freezing Point:** Not determined  
**Flash Point:** Not Available  
**Auto-Ignition Temperature:** Not determined  
**Decomposition Temperature:** Not determined  
**Flammability:** Non-flammable  
**Flammability Limits - Low:** Not determined  
**Hi:** Not determined

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

**Chemical Stability:** Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerization will not occur.

**Conditions to Avoid:** None

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

**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.

**Hazardous Polymerization:** Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

**Route of Exposure:** eye/skin contact, inhalation, ingestion.

**Acute Toxicity:**

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## A: General Product Information

**Eye Contact:** There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. Animal testing shows that direct contact of tetrasodium pyrophosphate with the eye causes severe irritation and injury to the cornea. Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea.

**Skin Contact:** The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur.

**Skin Absorption:** No information available for this product.

**Ingestion:** Accidental ingestion of the material may be damaging to the health of the individual. The principal concern with exposure to inorganic nitrate is its biological reduction to reactive and toxic nitrite. Nitrate itself is relatively harmless. Where bacteria are present and the environment is anaerobic, nitrate can be reduced to nitrite. 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:** The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Borates may act as simple airway irritants. Dryness of the mouth, nose or throat, dry cough, nose bleeds, sore throat, productive cough, shortness of breath, chest tightness and difficulty breathing were related to higher dose long term exposures.

**Chronic Hazards:** There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

**Medical Conditions Aggravated by Exposure:** The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Linear alkyl benzene sulfonates are derived from strong corrosive acids. Animal testing has shown they can cause skin reactions, eye irritation, sluggishness, passage of frequent watery stools, weakness and may lead to death.

## Carcinogenicity:

### a: Component Carcinogenicity:

None.

<b>NTP:</b>	No.	<b>IARC:</b>	No.
<b>OSHA:</b>	No.	<b>ACGIH:</b>	No.

## \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity:

### A: General Product Information

No information available for this product.

### B. Component Analysis - Ecotoxicity - Aquatic Toxicity:

Sodium Sulfate: LC50 (Fathead Minnow) = 13500-14000 mg/L/24-96H; LC50 (Bluegill Sunfish) = 13-50 mg/L/96H; LC50 (Mosquito Fish) = 17500 mg/L/96H; LC50 (Water Flea) = 4547 mg/L/96H.

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**Persistence and Mobility:** No information available for this product

**Bioaccumulation Potential:** No information available for this product.

**Environmental:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

**Mobility in Soil:** No information available.

## \*\*\* 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.

## \*\*\* Section 14 - Transportation Information \*\*\*

**US DOT Information:** CLEANING COMPOUNDS, N.O.I., NOT D.O.T. REGULATED

**Marine Pollutant:** Yes

**IMDG Classification:** None

**IATA Classification:** None

The data provided in this section is for information only and may not be specific for the package size or mode of transportation. See package label for further details.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

No additional information available.

#### B: Component Analysis

This material may contain chemicals, requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

HAZARDOUS COMPONENT	CERCLA RQ LBS.	SECT 302 TPQ LBS.	SECT 313* TOXIC	Maximum %
No CERCLA or SARA 313 components.				

<b>Sara 311/312 Hazards:</b>	<b>Immediate (Acute)</b>	TRUE
	<b>Chronic*</b>	FALSE
	<b>Fire</b>	FALSE
	<b>Sudden Release-of-Pressure</b>	FALSE
	<b>Reactive</b>	FALSE

### State Regulations

#### A: General Product Information

No additional information available.

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## Other Regulations

### A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

### B: Component Analysis - Inventory

**\*\*\* Section 16 - Other Information \*\*\***

### Revision Date:

Rev. 1, June 1, 2015

### 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 SDS for CHEM ALUM NSP 110.