

Material Safety Data Sheet

Product Trade Name: **CHEM ALUM SEAL 1085**

ID: H715

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

Product Trade Name: CHEM ALUM SEAL 1085

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
000373-02-4	Nickel (II) acetate	5-30
009084-06-4	Sodium salt of sulfonated naphthaleneformaldehyde condensate	1-10

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Nickel (7440-02-0).

Additional Information:

This product is considered hazardous as defined by 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! This product is irritating to the eyes, respiratory system and skin. This product may cause irritation to the respiratory system. Cancer hazard.

Eye Contact:

This product is irritating to the eyes.

Skin Contact:

This product may irritate the skin. Contact with the skin or mucous membranes may cause irritation. This product may cause allergic skin reactions in sensitive individuals. Hypersensitivity to nickel can cause contact dermatitis.

Skin Absorption:

Not expected for this product.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation:

This product may cause irritation to the respiratory system. This product may cause sensitization by inhalation.

Excessive inhalation of this material causes headache, dizziness, nausea and loss of coordination.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin, gastrointestinal and respiratory disorders may be aggravated by exposure.

*** 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 chemical contacts the skin, promptly flush the contaminated skin with soap and water. If this chemical penetrates the clothing, promptly remove the clothing and flush the skin with water. If irritation persists or develops after washing, 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 mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician

No additional information is available.

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

Flash Point:	> 200 °F	Upper Flammable Limit (UFL):	Not applicable
Flammability Classification:	Nonflammable	Lower Flammable Limit (LFL):	Not applicable

Fire & Explosion Hazards:

None expected.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, product emits acrid, dense smoke with carbon dioxide, carbon monoxide, trace oxides of sulfur, and other low molecular weight hydrocarbons. Decomposition may yield oxides of nickel.

Extinguishing Media:

Use methods for the surrounding fire.

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:

Absorb spill with inert material 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 vapors or mists of this product. Use with adequate ventilation. This product is for industrial use only. Do not take internally.

Storage Procedures:

Freezing damages this product. Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials.

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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

Nickel (II) acetate (000373-02-4)

ACGIH: metal, inhalable fraction: 1.5 mg/m³ TWA (related to Nickel)

OSHA: 1 mg/m³ TWA (related to Nickel)

NIOSH: as Ni: 0.015 mg/m³ TWA; NIOSH Potential Occupational Carcinogen - see Appendix A (related to Nickel)

Engineering Controls:

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

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: Liquid	Appearance: Green
Odor: Vinegar	Vapor Pressure: 17 mm Hg
Vapor Density: ND	Boiling Point: >212 °F (>100 °C)
Specific Gravity: 1.09 @ 25 °C (77 °F)	pH: 5.4
Viscosity: ND	VOC: ND
Solubility Water: Complete	Evaporation Rate: ND
Percent Volatile: ND	Percent Solids: 16%

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

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Keep away from incompatible materials.

Incompatibility:

This product may react with strong oxidizing agents and acids.

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Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Decomposition of this product may yield oxides of sulfur. Decomposition of this product may yield metallic oxides.

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

Nickel (II) acetate (000373-02-4)

Oral LD50 Rat: 350 mg/kg

Oral LD50 Mouse: 410 mg/kg

Sodium salt of sulfonated naphthaleneformaldehyde condensate (009084-06-4)

Oral LD50 Rat: 3800 mg/kg

Oral LD50 Mouse: 3400 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Nickel (II) acetate (000373-02-4)

ACGIH: A5 - Not Suspected as a Human Carcinogen (related to Nickel)

NIOSH: Occupational carcinogen (related to Nickel)

NTP: Suspect Carcinogen; (under Nickel and Certain Nickel Compounds) (Possible Select Carcinogen)

IARC: Monograph 49; 1990 (and alloys) (related to Nickel) (Group 2B (sufficient animal data))

Chronic Toxicity

No information available for the product. Systemic effects from ingestion of nickel salts include capillary damage, kidney damage, myocardial weakness and central nervous system depression. Allergic skin sensitization reactions are the most frequent effect of exposure to nickel compounds. Contact with nickel compounds may also result in allergic lung sensitization reactions.

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:

None available.

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Nickel (II) acetate (000373-02-4)

Test & Species

LC50 (96 hr) snakehead

306.9 mg/L.

Conditions

nickel ion.

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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 responsibly 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

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

No additional information available.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Nickel (II) acetate (000373-02-4)

SARA 313: form R reporting required for 0.1% de minimis concentration (related to Nickel)

CERCLA: final RQ = 100 pounds (45.4 kg) (related to Nickel)

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

State Regulations

A: General Product Information

This product contains trace levels of formaldehyde (50-00-0).

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
Nickel (II) acetate (1 related to Nickel)	000373-02-4	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ¹

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations

A: General Product Information

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

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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Nickel (II) acetate	000373-02-4	Yes	Yes	Yes
Sodium salt of sulfonated naphthaleneformaldehyde condensate	009084-06-4	Yes	Yes	No

C: Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Nickel (II) acetate	000373-02-4	0.1% item 1120 (27)

* * * Section 16 - Other Information * * *

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

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

MSDS Change History:

4/03/02: Rev.01 / Control # MSDS0094; MSDS as issued by Chemtech Finishing Systems.
 1/18/05: Chemtech Finishing Systems acquired by Heatbath Corporation.
 4/25/06: 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 SEAL 1085.