

# Safety Data Sheet

Product Trade Name: **TEMPERING A-HTS PINK W/PAG**

ID: TEAHTSPPAG

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

Product Trade Name: **TEMPERING A-HTS PINK W/PAG**

### 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:** Heat Treating Salt

**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). Classified as Dangerous Goods for transport purposes.

**Hazard Classification:** Acute Aquatic Hazard Category 1 | Acute Toxicity (Oral) Category 3 | Eye Irritation Category 2A | Oxidizing Solid Category 3

### **Labeling:**



**Signal Word:**

**DANGER!**

**Hazard Statements:**

May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life.

**PREVENTION:**

Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with combustibles/organic material. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

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

IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/ attention. Specific treatment Rinse mouth. In case of fire: Use water jets for extinction. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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
POTASSIUM NITRATE	7757-79-1	30 - 50% (T.S.)
SODIUM NITRITE	7632-00-0	20 - 40% (T.S.)
SODIUM NITRATE	7631-99-4	10 - 30% (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: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing until advised to stop by the Poisons Information Center or a doctor, or for at least 15 minutes. 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, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Center or a doctor. Urgent hospital treatment is likely to be needed.

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

**Flash Point:** None.

**Upper Flammable Limit** N.A.

**Flammable Limits:** None.

**Lower Flammable Limit** N.A.

**Extinguishing Media, PPE and Guidance for FireFighter:** Do NOT use water on a molten salt bath - potential explosion hazard. Carbon dioxide or dry chemical may be used for material around the immediate vicinity of the salt bath. Water may be used on granular/powder material. Avoid storage with reducing agents. Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous. Alert Fire Department and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus.

**Fire and Explosion Hazards:** Will not burn but increases intensity of fire. Heating may cause expansion or decomposition leading to violent rupture of containers. Heat affected containers remain hazardous. Hazardous fumes may be released under thermal decomposition.

**Decomposition Products:** Oxides of nitrogen under thermal decomposition

## \* \* \* 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 all spills immediately. No smoking, naked lights, ignition sources. Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result. Clear area of personnel and move upwind. Alert Fire Department and tell them location and nature of hazard. May be violently or explosively reactive.

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

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**Handling and Storage Procedures:** Avoid personal contact and inhalation of dust, mist or vapors. Provide adequate ventilation. Always wear protective equipment and wash off any spillage from clothing. Store in original containers. Keep containers securely sealed as supplied. Store in a cool, well-ventilated area. Inorganic reducing agents react with oxidizing agents to generate heat and products that may be flammable, combustible, or otherwise reactive. Their reactions with oxidizing agents may be violent. Incidents involving interaction of active oxidants and reducing agents, either by design or accident, are usually very energetic and examples of so-called redox reactions. Emptied containers of this product may contain hazardous vapors and residue. Clean thoroughly before reusing or discarding. Do not use a welding torch to cut container. Do not use for water or food storage.

## \* \* \* 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)
7757-79-1	Potassium Nitrate	N.E.	N.E.
7631-99-4	Sodium Nitrate	N.E.	N.E.
7632-00-0	Sodium Nitrite	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:** Odorless, pink powder  
**pH:** Not Available  
**Specific Gravity:** N.A.  
**Evaporation Rate:** N.A.  
**Solubility Water:** Complete  
**Vapor Density:** N.A.  
**Vapor Pressure:** N.A.  
**Octanol-Water Coefficient:** N.E.

**Boiling Point:** N.A.  
**Melting Point:** 290 F (143 C)  
**Flash Point:** Not Available  
**Auto-Ignition Temperature:** N.E.  
**Decomposition Temperature:** N.E.  
**Flammability Limits - Low:** N.A.  
**Hi:** N.A.

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

**Chemical Stability:** Unstable in the presence of incompatible materials. Product is considered stable under normal handling conditions. Prolonged exposure to heat

**Conditions to Avoid:** Avoid temperatures >1100 F. Do not mix with amines. This product contains nitrites which may react with amines under certain conditions to form nitrosamines, a reasonably anticipated human carcinogen.

**Incompatibility:** Acids, ammonium or magnesium compounds, combustibles, organics and reducing agents - particularly cyanides, cyanates and sulfates.

**Decomposition Products:** See section 5

**Hazardous Polymerization:** Will not occur.

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

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

### Acute Toxicity:

#### A: General Product Information

**Eye Contact:** Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterized by a temporary redness of the conjunctiva (similar to windburn).

**Skin Contact:** There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

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

**Ingestion:** Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual. The substance and/or its metabolites may bind to hemoglobin inhibiting normal uptake of oxygen. This condition, known as "methaemoglobinemia", is a form of oxygen starvation (anoxia). Symptoms include cyanosis (a bluish discolouration skin and mucous membranes) and breathing difficulties.

**Inhalation:** There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

**Chronic Hazards:** There has been concern that this material can cause mutations, but there is not enough data to make an assessment. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. 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. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

**Medical Conditions Aggravated by Exposure:** The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

### Carcinogenicity:

#### a: Component Carcinogenicity:

None.

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NTP: No.  
OSHA: No.

IARC: No.

**Reproductive/Genetic/Developmental Effects:** Sodium Nitrite: LD50 (oral, rat) 132 mg/kg LC50 (inhalation, rat) 5.5 mg/m<sup>3</sup>/4 hrs Some animal studies have shown mutagenic and reproductive effects with chronic exposure at very high concentrations.

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

### **Ecotoxicity:**

#### **A: General Product Information**

No information available for this product.

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

Sodium Nitrite: LC50 (Rainbow Trout, juvenile) = 0.19 - 0.39 mg/L/96H.

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

**Environmental:** Very toxic to aquatic organisms. 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:** UN3087, OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM NITRATE, SODIUM NITRITE AND POTASSIUM NITRATE), 5.1 (6.1), PG III

**Marine Pollutant:** Yes

**IMDG Classification:** UN3087, OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM NITRATE, SODIUM NITRITE AND POTASSIUM NITRATE), 5.1 (6.1), PG III

**IATA Classification:** UN3087, OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM NITRATE, SODIUM NITRITE AND POTASSIUM NITRATE), 5.1 (6.1), PG III

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).

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<b>HAZARDOUS COMPONENT</b>	<b>CERCLA RQ LBS.</b>	<b>SECT 302 TPQ LBS.</b>	<b>SECT 313* TOXIC</b>	<b>Maximum %</b>
Nitrates, Water Dissociable	N.A.	N.A.	Solution (Reported as Nitrate Ion [NO <sub>3</sub> <sup>-</sup> ])	50
Sodium Nitrite	100	N.A.	Yes	40

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

## State Regulations

### A: General Product Information

No additional information available.

## 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 TEMPERING A-HTS PINK W/PAG.