

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Code:** MORGAN-104-BULK  
**Product Name:** HT-1  
**Company Name:** Morgan-Gallacher, Inc.  
8707 Millergrove Drive  
Santa Fe Springs, CA 90670  
**Phone Number:** +1 (562)695-1232  
**Emergency Contact:** CHEMTREC +1 (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Skin Corrosion/Irritation, Category 1A**  
**Acute Toxicity: Oral, Category 4**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Corrosive To Metals, Category 1**  
**Aquatic Toxicity (Acute), Category 3**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H290 - May be corrosive to metals.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P102 - Keep out of reach of children.  
P103 - Read label before use.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
Take any precaution to avoid mixing with water and acid products.

**GHS Response Phrases:** P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P315 - Get immediate medical advice/attention.  
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.  
P315 - Get immediate medical advice/attention.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P315 - Get immediate medical advice/attention.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 - Get immediate medical advice/attention.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
P501 - Dispose of contents/container in accordance to local, state and federal regulations.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

**Potential Health Effects  
 (Acute and Chronic):**

**Inhalation:** Causes chemical burns to the respiratory tract. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

**Skin Contact:** Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

**Eye Contact:** Causes eye burns. May cause chemical conjunctivitis and corneal damage.

**Ingestion:** Causes gastrointestinal tract burns. May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7601-54-9	Sodium phosphate, Tribasic	< 5.0 %
NA	Phosphate	<10.0 %
NA	Dresinate TX	<10.0 %
NA	Surfactant	< 5.0 %
1310-73-2	Sodium hydroxide	<60.0 %

### 4. FIRST AID MEASURES

**Emergency and First Aid  
 Procedures:**

**In Case of Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid immediately.

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical aid immediately.

**In Case of Ingestion:** If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Note to Physician:** Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

**Flash Pt:** No data.

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

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Use dry chemical, carbon dioxide, or appropriate foam. Do NOT get water inside containers.

**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. Contact with metals may evolve flammable hydrogen gas. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials.

**Flammable Properties and Hazards:** No data available.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let this chemical enter the environment. Avoid runoff into storm sewers and ditches which lead to waterways.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not get water on spilled substances or inside containers.

## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Keep container tightly closed. Avoid ingestion and inhalation.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Keep away from metals. Keep away from acids. Store protected from moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7601-54-9	Sodium phosphate, Tribasic	No data.	No data.	No data.
NA	Phosphate	No data.	No data.	No data.
NA	Dresinate TX	No data.	No data.	No data.
NA	Surfactant	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Wear chemical splash goggles.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance and Odor:** Brown.  
Free flowing granules.

**Melting Point:** No data.

**Boiling Point:** No data.

**Autoignition Pt:** No data.

**Flash Pt:** No data.

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

**Specific Gravity (Water = 1):** No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

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

**Evaporation Rate:** No data.

**Solubility in Water:** No data.

**Percent Volatile:** No data.

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Incompatible materials, Exposure to moist air or water, Moisture, contact with water.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Strong acids, Water, metals, Acids, aluminum, Zinc, gelatin, nitromethane, leather, flammable liquids, organic halogens.

**Hazardous Decomposition or Byproducts:** oxides of phosphorus, Toxic fumes of sodium oxide.

**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: No information found.  
Mutagenicity: No information found.  
Neurotoxicity: No information found.  
CAS# NA: Surfactant: Acute toxicity, LD50, Oral, Rat, 960.0 - 3980. MG/KG. Result: Blood:Tumors. Immunological Including Allergic: Autoimmune (multiple organ involvement).  
Acute toxicity, LD50, Dermal, Rabbit, 2000. - 2991. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Vascular: BP lowering not characterized in autonomic section. Skin and Appendages: Skin: After topical exposure: Corrosive.  
Acute toxicity, LD50, Inhalation, Rat, 1.150 MG/L, 4 H. Result: Lungs, Thorax, or Respiration:Other changes. Gastrointestinal:Nausea or vomiting.

**Irritation or Corrosion:** Other Studies: CAS# 1310-73-2  
Acute toxicity, LD50, Oral, Mouse, 5800mg/kg.

Other Studies: CAS# 1310-73-2  
Standard Draize Test, Eyes, Species: Rabbit, 400.0 ug

**Carcinogenicity/Other** OSHA: No component of this product present at levels greater than or equal to 0.1% is

**Information:** identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

CAS# 7601-54-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.

CAS# NA: Surfactant: LC50, Fathead Minnow (*Pimephales promelas*), 3.800 - 6.200 MG/L, 96 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.  
LC50, Water Flea (*Daphnia magna*), 9.300 - 21.40 MG/L, 48 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.

**Results of PBT and vPvB assessment:** Other Studies: CAS# 1310-73-2:  
LC50, Common Shrimp, Sand Shrimp (*Crangon crangon*), adult(s), 33000 - 100000 ug/L, 48H, Mortality  
LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 125000 ug/L, 96H, Mortality  
LC50, Cockle (*Cerastoderma edule*), adult(s) 330000 - 1000000 ug/L, 48H, Mortality  
LC50, Guppy (*Poecilia reticulata*), young organism(s), 196.0 mg/L, 96H, Mortality

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** 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. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**14. TRANSPORT INFORMATION**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Sodium hydroxide, solid. mixture.

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN1823 **Packing Group:** II



**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)
7601-54-9	Sodium phosphate, Tribasic	No	Yes 5000 LB	No
NA	Phosphate	No	No	No
NA	Dresinate TX	No	No	No
NA	Surfactant	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

**CAS # Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

7601-54-9	Sodium phosphate, Tribasic	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1724; NY Part 597: Yes; PA HSL: Yes - E
NA	Phosphate	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
NA	Dresinate TX	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
1310-73-2	Sodium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E

**16. OTHER INFORMATION**

**Revision Date:** 12/01/2014

**Hazard Rating System:**



**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:**

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.