



# UNISOURCE CHEMICALS PRIVATE LIMITED

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## MUREXIDE ACS

### Material Safety Data Sheet

#### **1. PRODUCT IDENTIFICATION:**

**Synonyms:** Ammonium purpurate; heterocyclic nitrogen compound; water hardness test.

**CAS No.:** 3051-09-0.

**Molecular Weight:** 284.19.

**Chemical Formula:** C<sub>8</sub>H<sub>8</sub>N<sub>6</sub>O<sub>6</sub>.

#### **2. COMPOSITION / INFORMATION ON INGREDIENTS:**

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Percent</u> | <u>Hazardous</u> |
|----------------------|----------------|----------------|------------------|
| Murexide             | 3051-09-0      | 100%           | No               |

#### **3. HAZARDS IDENTIFICATION:**

##### **Emergency Overview**

**Appearance:** Dark Maroon to reddish violet. **WARNING! TOXICOLOGICAL PROPERTIES UNKNOWN. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT**

##### **Potential Health Effects**

Information on the human health effects from exposure to this substance is limited.

**Eyes:** May cause eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin. The toxicological properties of this substances have not been fully investigated.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated. May be harmful is swallowed/

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May be harmful if inhaled.

#### **4. FIRST AID MEASURES:**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** **NEVER** give anything by mouth to an unconscious person. Get medical aid. **DO NOT** induce vomiting. **If** conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Notes to Physician:** Treat symptomatically and supportively.

## **5. FIRE FIGHTING MEASURES:**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** In case of fire use water spray to cool fire expose containers. Use water spray, dry chemicals, carbon dioxide, or appropriate foam. Use agent most appropriate to extinguish fire.

**Flash Point:** Not applicable.

**Auto-ignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0.

## **6. ACCIDENTAL RELEASE MEASURES:**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/ Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

## **7. HANDLING AND STORAGE:**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

### **Exposure Limits**

| <b><u>Chemical Name</u></b> | <b><u>ACGIH</u></b> | <b><u>NIOSH</u></b> | <b><u>OSHA-Final PEL's</u></b> |
|-----------------------------|---------------------|---------------------|--------------------------------|
| Murexide                    | None listed         | None listed         | None listed                    |

**OSHA Vacated PELs:** Murexide: No OSHA Vacated PELs are listed for this chemicals.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear impervious protective clothing including boots, lab coat, apron or coveralls to prevent skin contact.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator whenever workplace conditions warrant respirator use.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** Dark Maroon to reddish violet..

**Odor:** Odorless.

**pH:** No information found

**Vapor Pressure:** Negligible.

**Vapor Density:** Not available.

**Evaporation Rate:** Negligible.

**Viscosity:** Not available.

**Boiling Point:** No information found.

**Freezing/Melting Point:** >300° C (>572°F)

**Decomposition Temperature:** Not available.

**Solubility:** Slight (0.1-1%)

**Specific Gravity/Density:** No information found.

#### **10. STABILITY AND REACTIVITY:**

**Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Incompatible materials, dust generation,

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

#### **11. TOXICOLOGICAL INFORMATION:**

**RTECS#:**

CAS#3051-09-0: unlisted.

**LD50/LC50:**

CAS#3051-09-0: Not available.

**Carcinogenicity:** CAS#3051-09-0: Not listed by ACGIH, IARC, NIOH, NTP, or OSHA.

**Epidemiology:** No information found.

**Teratogenicity:** No information found.

**Reproductive Effects:** No information found.

**Neurotoxicity:** No information found.

**Mutagenicity:** No information found.

**Other Studies:**

#### **12. ECOLOGICAL INFORMATION:**

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

#### **13. DISPOSAL CONSIDERATIONS:**

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 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

#### **14. TRANSPORT REGULATIONS:**

Not regulated

#### **15. REGULATORY INFORMATION:**

**US FEDERAL**

**TSCA**

CAS#3051-09-0 is listed on the TSCA inventory.

**Health & Safety Reporting List:** None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules:** None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b:** None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule:** None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs:** None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances:** None of chemicals in this products have TPQ.

**Section 313:** No chemicals are reportable under Section 313

**Clean Air Act:** This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:** CAS#3051-09-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California No Significant Risk Level:** None of the chemicals in this product are listed.

## **EUROPEAN/INTERNATIONAL REGULATIONS**

### **European Labeling in Accordance with EX Directives**

#### **Hazard Symbols**

Not available.

#### **Risk Phrases:**

#### **Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

#### **WGK (Water Dangers/Protection)**

CAS#3051-09-0: No information available.

#### **Canada – DSL/NDSL**

CAS#3051-090-0 is listed on Canada's DSL List.

#### **Canada – WHMIS**

This product has a WHMIS classification of Not Controlled.

#### **Canadian Ingredient Disclosure List**

CAS#3051-09-0 is not listed on Canadian Ingredient Disclosure List

#### **Exposure Limits**

#### **Product Use:**

Laboratory Reagent.

## **16. DISCLAIMER INFORMATION:**

### **DISCLAIMER:**

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