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# MATERIAL SAFETY DATA SHEET

### **Di-AMMONIUM CITRATE**

(Di Ammonium Hydrogen Citrate) MSDS CAS: 3012-65-5

# Section 1: Chemical Product and Company Identification

#### **Section 1: Chemical Product**

**Product Name:** Ammonium citrate dibasic

CAS#: 3012-65-5

C.I. No.: Not applicable.

Synonym:

**Chemical Name:** 

Chemical Formula: C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>7</sub>

**Brand: OXFORD** 

### **Details Of The Supplier Of The Safety Data Sheet:**

Company identification: OXFORD LAB CHEM

Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,

Navghar, Vasai (East). Thane - 401 210.

Mumbai, Maharashtra, INDIA.

Tel: 91-250-6050028

Tel/Fax: 91-250-2390032

# Section 2: Composition and Information on Ingredients

### **Composition:**

Name	CAS#	% by Weight
Ammonium citrate dibasic	3012-65-5	100

Toxicological Data on Ingredients: Ammonium citrate dibasic LD50: Not available. LC50: Not available.

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### **Section 3: Hazards Identification**

<u>Potential Acute Health Effects</u>: Very hazardous in case of ingestion, of inhalation. Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant).

<u>Potential Chronic Health Effects</u>: Very hazardous in case of ingestion, of inhalation. Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

### **Section 4: First Aid Measures**

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

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

**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

# **Section 5: Fire and Explosion Data**

Flammability of the Product: May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

Flash Points: Not available.

Flammable Limits: Not available.

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# **Section 5: Fire and Explosion Data (Continued)**

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Material in powder form, capable of creating a dust explosion. Special Remarks on Explosion Hazards: Not available.

# **Section 6: Accidental Release Measures**

<u>Small Spill:</u> Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**<u>Large Spill:</u>** Use a shovel to put the material into a convenient waste disposal container.

## **Section 7: Handling and Storage**

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

# **Section 8: Exposure Controls/Personal Protection**

<u>Engineering Controls:</u> Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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# **Section 8: Exposure Controls/Personal Protection (Continued)**

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

# **Section 9: Physical and Chemical Properties**

Physical state and appearance: Solid. (Crystalline granules solid.)

Odor : Not available. **Taste** : Not available. : 226.19 g/mole

**Molecular Weight** Color : White pH (1% soln/water) : 5 [Acidic.] **Boiling Point** : Not available. **Melting Point** : Decomposition **Flash Point** : Not available. **Critical Temperature** : Not available. **Specific Gravity** : 1.48 (Water = 1)Vapor Pressure : Not applicable

**Vapor Density** : Not available. Volatility : Not available. **Odor Threshold** : Not available. Water/Oil Dist. Coeff. : Not available **Ionicity (in Water)** : Not available.

**Dispersion Properties** : See solubility in water. **Solubility** 

: Easily soluble in cold water.

# **Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

Instability Temperature: Not available.

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# Section 10: Stability and Reactivity Data (Continued)

Conditions of Instability: Not available.

**Incompatibility with various substances:** Not available.

Corrosivity: Non-corrosive in presence of glass. Special Remarks on Reactivity: Not available. Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

# **Section 11: Toxicological Information**

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Causes damage to the following organs: lungs, mucous membranes.

Other Toxic Effects on Humans: Very hazardous in case of ingestion, of inhalation. Slightly hazardous

in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

## **Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5** and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely.

However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

# **Section 13: Disposal Considerations**

### Waste Disposal:

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# **Section 14: Transport Information**

**Land transport (ADR-RID)** 

**General Information:** Not Regulated

Sea transport (IMDG) [English only]

**General Information:** Not Regulated

Air transport (ICAO-IATA) [English only]

**General Information:** Not Regulated

## **Section 15: Other Regulatory Information**

Federal and State Regulations: Pennsylvania RTK: Ammonium citrate dibasic Massachusetts RTK: Ammonium citrate dibasic TSCA 8(b) inventory: Ammonium citrate dibasic CERCLA: Hazardous substances. Ammonium citrate dibasic

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:** 

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL** (EEC): R36- Irritating to eyes.

HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 1 Reactivity: 0

**Personal Protection: E** 

**National Fire Protection Association (U.S.A.):** 

Health: 2

Flammability: 1 Reactivity: 0 Specific hazard:

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

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# **Section 16 - Additional Information**

References: Not available.

Other Special Considerations: Not available.

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