

## **SAFETY DATA SHEET**

Creation Date 03-Nov-2010 Revision Date 19-Jan-2022 Revision Number 5

1. Identification

Product Name Citric acid, diammonium salt

Cat No.: AC392500000; AC392500025; AC392501000; AC392505000

**CAS No** 3012-65-5

Synonyms Diammoniumcitrate

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2

Label Elements

Signal Word Warning

**Hazard Statements** 

Causes skin irritation
Causes serious eye irritation



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### Skir

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

#### **Eyes**

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

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

| Component                 | CAS No    | Weight % |
|---------------------------|-----------|----------|
| Ammonium citrate, dibasic | 3012-65-5 | <=100    |

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

**Flash Point Method -**No information available

No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| NI | _ |   |   |
|----|---|---|---|
| IN | г | г | н |

**Flammability** Instability Physical hazards Health 2 0 N/A 0

## Accidental release measures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust **Personal Precautions** 

formation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up

containers for disposal.

## 7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. This product is

hygroscopic. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines** 

limits established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures** 

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** 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

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

No protective equipment is needed under normal use conditions. **Respiratory Protection** 

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Physical State** Solid

**Appearance** No information available

Odor Ammonia-like

**Odor Threshold** No information available 4.3 23 g/L aq solution **Melting Point/Range** No data available

**Boiling Point/Range** No information available Flash Point No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available Not applicable

**Vapor Density** 

1.500 **Specific Gravity** 

Solubility No information available Partition coefficient; n-octanol/water No data available

No information available **Autoignition Temperature** No information available **Decomposition Temperature** 

**Viscosity** Not applicable Molecular Formula C6 H14 N2 O7 **Molecular Weight** 226.19

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Hygroscopic. Stability

**Conditions to Avoid** Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous polymerization does not occur. **Hazardous Polymerization** 

None under normal processing. **Hazardous Reactions** 

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** No acute toxicity information is available for this product

**Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and respiratory system

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component         | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------|-----------|------------|------------|------------|------------|------------|
| Ammonium citrate, | 3012-65-5 | Not listed |
| dibasic           |           |            |            |            |            |            |

**Mutagenic Effects** No information available

#### Citric acid, diammonium salt

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

None known STOT - single exposure STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

## Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

Not regulated DOT TDG Not regulated Not regulated IATA IMDG/IMO Not regulated

## 15. Regulatory information

#### **United States of America Inventory**

| Component                 | CAS No    | TSCA | TSCA Inventory notification -<br>Active-Inactive | TSCA - EPA Regulatory Flags |
|---------------------------|-----------|------|--|-----------------------------|
| Ammonium citrate, dibasic | 3012-65-5 | X    | ACTIVE   | _                           |

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                 | CAS No    | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|---------------------------|-----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Ammonium citrate, dibasic | 3012-65-5 | Х   | -    | 221-146-3 | Χ     | Χ    | Χ    | Χ    | Х     | KE-20833 |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

#### **SARA 313**

| Component                 | CAS No    | Weight % | SARA 313 - Threshold<br>Values % |
|---------------------------|-----------|----------|----------------------------------|
| Ammonium citrate, dibasic | 3012-65-5 | <=100    | 1.0                              |

#### SARA 311/312 Hazard Categories

See section 2 for more information

**CWA (Clean Water Act)** 

|    | Component                | CWA - Hazardous<br>Substances | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|----|--------------------------|-------------------------------|--------------------------------|------------------------|---------------------------|
| An | nmonium citrate, dibasic | X                             | 5000 lb                        | -                      | -                         |

Clean Air Act

**CERCLA** 

Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302)

| Component                 | Hazardous Substances RQs | CERCLA EHS RQs |
|---------------------------|--------------------------|----------------|
| Ammonium citrate, dibasic | 5000 lb                  | -              |

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know

Regulations

| Component         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Ammonium citrate, | Х             | X          | Х            | -        | -            |
| dibasic           |               |            |              |          |              |

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

### Authorisation/Restrictions according to EU REACH

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component | CAS No | CAS No OECD HPV | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous |
|-----------|--------|-----------------|---------------------------------|------------------------------|-----------------------------|
|           |        |                 |                                 |                              | Substances (RoHS)           |

| Ammonium citrate, dibasic | 3012-65-5 | Not applicable  | Not applicable   | Not applicable                | Not applicable                        |  |  |  |  |
|---------------------------|-----------|---|--|-------------------------------|---------------------------------------|--|--|--|--|
|                           |           |   |  |                               |                                       |  |  |  |  |
| Component                 | CAS No    | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |  |  |  |  |
| Ammonium citrate, dibasic | 3012-65-5 | Not applicable  | Not applicable   | Not applicable                | Not applicable                        |  |  |  |  |

## 16. Other information

Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**