

# SAFETY DATA SHEET

Revision Date 26-December-2021 Creation Date 24-November-2009 **Revision Number 4** 

1. Identification

**Product Name** Ammonium dihydrogen phosphate

AC423380000; AC423380025; AC423380050; AC423385000 Cat No.:

CAS-No

**Synonyms** Ammonium phosphate, monobasic

**Recommended Use** Laboratory chemicals.

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

Details of the supplier of the safety data sheet

Company

Manufacturer Importer/Distributor Fisher Scientific Company

Acros Organics Fisher Scientific One Reagent Lane 112 Colonnade Road. One Reagent Lane Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6,

Fair Lawn, NJ 07410 Tel: (201) 796-7100

Canada

Tel: 1-800-234-7437

**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

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

# 3. Composition/Information on Ingredients

| Component              | CAS-No    | Weight % |
|------------------------|-----------|----------|
| Monoammonium phosphate | 7722-76-1 | >95      |

## 4. First-aid measures

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

medical attention if symptoms occur.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

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

respiration.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms/effects Notes to Physician

No information available. Treat symptomatically

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

No information available **Unsuitable Extinguishing Media** 

**Flash Point** Not applicable

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

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

Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

## **Hazardous Combustion Products**

Oxides of phosphorus. Nitrogen oxides (NOx). Ammonia.

### **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.

NFPA

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

## Accidental release measures

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

formation.

**Environmental Precautions** Avoid release to the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

## 7. Handling and storage

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

contact with skin, eyes or clothing. Avoid ingestion and inhalation, Avoid dust formation.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

**Eye 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.

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

| Glove material | Breakthrough time | Glove thickness | Glove comments         |
|----------------|-------------------|-----------------|------------------------|
| Natural rubber | See manufacturers | -               | Splash protection only |
| Nitrile rubber | recommendations   |                 |                        |
| Neoprene       |                   |                 |                        |
| PVC            |                   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particle filter

## **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## 9. Physical and chemical properties

Physical StateSolidAppearanceWhiteOdorOdorless

Odor ThresholdNo information availablepH3.8 - 4.40.2M aq.sol

Melting Point/Range190 °C / 374 °FBoiling Point/RangeNo information available

Flash Point Not applicable Evaporation Rate Not applicable

## Ammonium dihydrogen phosphate

No information available

Flammability (solid, gas)

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available

Solubility Soluble in water Partition coefficient; n-octanol/water No data available **Autoignition Temperature** No information available

**Decomposition Temperature** > 190°C Not applicable **Viscosity** Molecular Formula H6 N O4 P

**Molecular Weight** 115.03

# 10. Stability and reactivity

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

Stable under normal conditions. Stability

**Conditions to Avoid** Incompatible products. Excess heat. Avoid dust formation.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Oxides of phosphorus, Nitrogen oxides (NOx), Ammonia

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

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

## **Acute Toxicity**

## **Product Information**

**Component Information** 

| Component              | LD50 Oral               | LD50 Dermal                | LC50 Inhalation |  |
|------------------------|-------------------------|----------------------------|-----------------|--|
| Monoammonium phosphate | LD50 = 5750 mg/kg (Rat) | LD50 > 7940 mg/kg (Rabbit) | Not listed      |  |

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation No information available

Sensitization No information available

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

|   | Component              | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|---|------------------------|-----------|------------|------------|------------|------------|------------|
| Ī | Monoammonium phosphate | 7722-76-1 | Not listed |

No information available **Mutagenic Effects** 

No information available. **Reproductive Effects Developmental Effects** No information available.

**Teratogenicity** No information available.

## Ammonium dihydrogen phosphate

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

Aspiration hazard No information available

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**

No information available.

| Component              | Freshwater Algae | Freshwater Fish   | Microtox   | Water Flea |
|------------------------|------------------|---|------------|------------|
| Monoammonium phosphate | Not listed       | LC50: > 85.9 mg/L, 96h<br>static (Oncorhynchus<br>mykiss) | Not listed | Not listed |

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.

## 13. 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  |               |  |  |  |  |
|----------------------------|---------------|--|--|--|--|
| DOT                        | Not regulated |  |  |  |  |
| DOT<br>TDG<br>IATA         | Not regulated |  |  |  |  |
| IATA                       | Not regulated |  |  |  |  |
| IMDG/IMO                   | Not regulated |  |  |  |  |
| 15. Regulatory information |               |  |  |  |  |

#### **International Inventories**

| Component              | CAS-No    | DSL | NDSL | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | EINECS    | ELINCS | NLP |
|------------------------|-----------|-----|------|------|---|-----------|--------|-----|
| Monoammonium phosphate | 7722-76-1 | X   | -    | Х    | ACTIVE  | 231-764-5 | -      | -   |

| Component              | CAS-No    | IECSC | KECL     | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|------------------------|-----------|-------|----------|------|------|------|------|-------|-------|
| Monoammonium phosphate | 7722-76-1 | Х     | KE-01656 | Χ    | Х    | Х    | Х    | Х     | X     |

#### Legend:

X - Listed '-' - Not Listed

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

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

### Other International Regulations

## Authorisation/Restrictions according to EU REACH

| Component              |   | REACH (1907/2006) - Annex XVII -<br>Restrictions on Certain Dangerous<br>Substances |   |
|------------------------|---|---|---|
| Monoammonium phosphate | - | Use restricted. See item 65. (see link for restriction details)                     | - |

https://echa.europa.eu/substances-restricted-under-reach

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

| Component              | CAS-No             | Pollutant Potential  |                      |                |                  | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|------------------------|--------------------|----------------------|----------------------|----------------|------------------|------------------------------|--|
| Monoammonium phosphate | e 7722-76-1 Listed |                      | Not applicable       | Not applicable | Not applicable   |                              |  |
|                        |                    |                      |                      |                |                  |                              |  |
| Component              | CAS-No             | Seveso III Directive | Seveso III Directive | Rotterdam      | Basel Convention |                              |  |

| Component              | CAS-No                                      | Seveso III Directive          | Seveso III Directive | Rotterdam        | Basel Convention  |  |  |  |
|------------------------|---|-------------------------------|----------------------|------------------|-------------------|--|--|--|
|                        |   | (2012/18/EC) - (2012/18/EC) - |                      | Convention (PIC) | (Hazardous Waste) |  |  |  |
|                        | Qualifying Quantities Qualifying Quantities |                               |                      |                  |                   |  |  |  |
|                        |   | for Major Accident            | for Safety Report    |                  |                   |  |  |  |
|                        |   | Notification                  | Requirements         |                  |                   |  |  |  |
| Monoammonium phosphate | 7722-76-1                                   | Not applicable                | Not applicable       | Not applicable   | Not applicable    |  |  |  |

## 16. Other information

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Revision Summary This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

### 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**