

1. Identification

Product name Product code **Chemical Description**  Alpha MAT ALPHA

Recommended use

Manufacturer & Distributor information

Corporate Office

Telephone Website E-mail Contact person

Emergency phone number

Call CHEMTREC Day or Night Within USA and Canada

Other Countries

**SDS-Regulatory Department** 

Plant Food Company, Inc. 38 Hightstown-Cranbury Station Road Cranbury, NJ 08512 United States Information: 1-609-448-0935

www.plantfoodco.com

pfc@plantfoodco.com

Turf & Horticulture-Water Treatment

1-800-424-9300 CCN725928

or +1 703-527-3887 (collect calls accepted)

1-609-448-0935

2. Hazard(s) identification

Physical hazards

Health hazards

Corrosive. May cause severe burns

Acute toxicity, oral

Serious eye damage/eye irritation

Specific target organ toxicity, single exposure

Category 4 Category 2A

Category 2

Category 3 respiratory tract

irritation

**Environmental hazards OSHA** defined hazards

Label elements

Signal word

Hazard statement

Prevention

Response

Precautionary statement

Hazardous to the aquatic environment, acute hazard Not classified.



Warning

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do

not eat, drink or smoke when using this product. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye

irritation persists: Get medical advice/attention.

Corrosive

Hazard(s) not otherwise classified (HNOC)

# 3. Composition/information on ingredients



Mixture

Monocarbamdie dihydrogen sulfate (MCDS)

Salicylic Acid Surfactant Mixture

Chemical Name

4. First-aid measures

Inhalation

Skin contact

Eye contact

Ingestion

Most important symptoms/effects, acute and delayed Indication of immediate medical attention and special

treatment needed General information

Irritation of eyes and mucous membranes.

generated under heir particular conditions of use.

Synonym Common Name

**MCDS** 

Salicylic Acid

NJTSR JC2403

breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EINECS No.

244-343-6

200-712-3

5. Fire-fighting measures

Flammable Properties:

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for

firefighters

Fire-fighting equipment/instructions

Specific methods

General fire hazards

7. Handling and storage Precautions for safe handling

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Environmental precautions** 

Methods and materials for containment and cleaning up

Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of

Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention. This product contains no free sulfuric acid. However, end users should examine whether inorganic acid mists containing sulfuric acid may be formed and

Corrosive. May cause severe burns. Immediately flush with large quantities of water. Remove contaminated

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if

Do not induce vomiting. Careful removal of the substance from the stomach by medical personnel is required. Call a physician or poison control center immediately. Get immediate medical attention. If tolerated, give no more than 1 cup of milk or water to rinse the mouth and throat and dilute the stomach contents. No more than 8 ounces (1 cup) in adults and 4 ounces (1/2 cup) in children is recommended to minimize the risk of vomiting.

clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

NFPA: Health - 0 Flammability - 0 Reactivity - 0 Not flammable, use media suitable for combustibles involved in fire.

**CAS Number** 

present and easy to do. If eye irritation persists: Get medical advice/attention.

21351-39-3

69-72-7

Not applicable.

May vigorously decompose under high temperature conditions (>230° F, >110° C) releasing carbon dioxide gas. Small quantities of carbon dioxide will be released under normal storage conditions. If material is exposed to prolonged heat in a fire, oxides of carbon, nitrogen and sulfur may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.

Container rupture may occur under fire conditions or when heated if not adequately vented. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Responders should consider the need for evacuation based on concentrations of emitted decomposition products. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. Contain fire water for treatment prior to disposal.

No additional information

Keep people away from any upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Stop the flow of material if this is without risk

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

Conditions for safe storage, including any incompatibilities

Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Will corrode incompatible metals. Polyethylene, polypropylene or 316L stainless steel are acceptable materials of construction. Storage tanks should be designed to API Standard 650. Tanks should be vented and painted white or in light heat-reflecting colors. Piping should be all welded schedule 80. Ensure that all pumps, valves, meters, gaskets, etc. are of compatible material. Secondary containment is recommended where practical or required by law. Periodic inspection of metal components for corrosion is recommended. Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).



### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values

Appropriate engineering controls

Individual protection measures, such as personal

protective equipment Eye/face protection Skin protection

Hand protection

Other

Respiratory protection Thermal hazards

General hygiene considerations

No exposure limits noted for ingredient(s).

No biological exposure limits noted for ingredient(s).

Provide eyewash station.

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

For prolonged or repeated skin contact use suitable protective gloves. Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance (physical state, color, etc.)

Odor Odor threshold

рΗ Melting point/freezing point

Initial boiling point and boiling range

Flash point

**Evaporation rate** 

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapor pressure Vapor density

Relative density

Solubility

Solubility (water)

Partition coefficient (n-octanol/water) Auto-ignition temperature

Decomposition temperature Viscosity

Other information

Shelf life

## 10. Stability and reactivity Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Corrosivity

Clear bluish liquid Odorless

Not available.

< 1

32 °F (0° C) (Typical))

222°F (106°C)

Not available

Not determined

Not applicable

Not applicable

Not available.

Not available.

12.7 lbs/gal (1.52 kg/L)

Complete

100%

Not available.

Not available

Data not available

1-10 CPS @ 21°C

> 2 years

Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).

Material is stable under normal conditions.

Reactive or incompatible with nitrates, hyprochlorites, sulfides, alkaline materials and many metals. Toxic of

flammable gases may be formed, or unacceptable corrosion may result. Do not mix with UAN solutions.

Temperatures above 120°F (49°C) and below 32°F (0°C).

Extremely corrosive to copper, aluminum, zinc. Corrosive to mild steel, especially when diluted. Corrosive to 304 stainless steel. Slightly corrosive to 316 stainless steel. Incompatible with nylon or nylon blends. Acceptable materials of construction are fiberglass, CPVC, polyethylene, polypropylene or 316L stainless steel. Consult a metallurgical specialist to ensure compatibility with handling equipment and for periodic inspection of metallic components.

## 11. Toxicological information

Information on likely routes of exposure

Oral Not determined Inhalation Not determined Skin contact Not determined Eye contact Not determined

Not listed in NTP, IARC or by OSHA. Chronic/Carcinogenicity: Teratology: Data not available. Data not available Reproduction: Mutagenicity: Data not available



12. Ecological information

Bioaccumulative potential

Data not available

Persistence and degradability Urea, sulfuric acid, ammonium, nitrate, and sulfate salts and carbon dioxide

This product is not bioaccumulative

Mobility in soil Not determined Other adverse effects Not determined

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be Disposal instructions

disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions). Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may

retain product residue, follow label warnings even after container is emptied.

14. Transport information

Contaminated packaging

DOT Corrosive Liquid, N.O.S. (monocarbamide dihydrogen sulfate)

IATA Not regulated as dangerous goods. IMDG Not regulated as dangerous goods.

Note: DOT Corrosive to aluminum. Not regulated if transported by motor vehicle or railcar in packaging that will not react dangerously or be degraded by this material 49CFR 173.154(D).

15. Regulatory information

This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200. **US federal regulations** 

TSCA Section 12(b) Export Notification Not regulated.

(40 CFR 707, Subpt. D)

Hazard categories

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification

This product contains no Reportable Quantity (RQ) substances. However, since spilled material may react with water to release

sulfuric acid, an effective RQ of 2040 lbs. (161 gal) should be applied in the event of a spill

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Not listed.

Hazardous by definition

Not regulated.

Not regulated.

Immediate Hazard - Yes

SARA 302 Extremely hazardous substance Other federal regulations

**OSHA Specifically Regulated Substances** 

(29 CFR 1910.1001-1050)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants

(HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release

Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

Issue date 6/1/2015 Revision date 2/21/2017

Version # Disclaime

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only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder is given gratis and we assume no obligation or liability for the information given

or results obtained, all such being given and accepted at your risk.

**Revision Information** Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties