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 WESTERN

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 The Best Products.

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 The Best Service.

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 FARM SERVICE

MATERIAL SAFETY DATA SHEET NO. 417

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| PRODUCT NAME | First Choice ^{(R} Ultra Pro |
|-----------------------|--------------------------------------|
| Chemical Name | Ammonium sulfate |
| Common Name, Synonyms | Ammonium sulfate solution (enhancer) |

MANUFACTURER Western Farm Service, Inc.

EMERGENCY TELEPHONE NUMBERS Information (209) 436-0450 8am-5pm PST M-F CHEMTREC (800) 424-9300 24 hours every day

2. COMPOSITION/INFORMATION ON INGREDIENTS

Solution contains the following INGREDIENTS

| Chemical Name | CAS# | |
|---------------------------|------------------------|--|
| Ammonium sulfate Water | 7783-20-2 7732-18-5 | Refer to Section 8 for exposure guidelines |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Hazy, colorless to light tan liquid. Very slight odor

CAUTION! Moderately toxic if absorbed through skin May irritate eyes, skin

OSHA HAZARD CATEGORY - IRRITANT

| CERCLA | RATINGS | (SCALE 0 | 0-3) | | | | | |
|--------|---------|----------|------|------------|----|-------------|---|---|
| HEALTH | = 1 | FIRE = 0 | 0 | REACTIVITY | =0 | PERSISTENCE | = | 0 |

PRIMARY ROUTE(S) OF ENTRY Skin or eye contact is the most likely exposure. Ingestion is possible. Inhalation of this solution is unlikely unless unusual conditions of use result in aerosol production.

TARGET ORGANS Eyes, skin

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MSDS NO. 417 PRODUCT First Choice Ultra Pro 3. HAZARDS IDENTIFICATION (con't) POTENTIAL HEALTH EFFECTS Eyes May cause irritation to eyes Skin Normally no irritation to skin. May be moderately toxic if absorbed through skin May cause irritation to mucous membranes, Inhalation coughing, or difficulty in breathing Ingestion May cause slight gastrointestinal irritation. Large doses of this solution may cause nausea, vomiting, stomach pain or cramps, diarrhea SYMPTOMS OF OVEREXPOSURE Acute Refer to potential health effects above Chronic Repeated or prolonged contact with irritants may cause conjunctivits or dermatitis. Notes to Physician In the case of inhalation, keep under medical supervision until there is no risk of acute pulmonary edema or microbial infection. Persons with chronic respiratory or skin disease may be at increase risk from exposure. 4. FIRST AID MEASURES Eyes Flush gently but thoroughly for 15 minutes with large amounts of clean water, occasionally lifting upper and lower lids. Seek medical attention. Skin Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If redness or rash develops and persists, seek medical attention. Wash or clean contaminated clothing and shoes before wearing again. Inhalation If respiratory symptoms develop, remove person to fresh air immediately. Seek medical attention if discomfort persists. Begin artificial respiration or CPR (cardiopulmonary resuscitation) if required. Seek medical attention immediately. Seek medical attention immediately. If immediate help Ingestion is not available, and person is conscious, give 8 to 16 ounces of water to drink and make person vomit. Do not force an unconscious person to drink or vomit. 7/24/97 WESTERN FARM SERVICE, INC. Page 2 of 6

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5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION DATA

| Flashpoint | | Not | flammable |
|------------|--------|-----|-----------|
| Flammable | Limits | Not | flammable |

Ammonia may evolve from this solution at high temperatures. Flammable limits of ammonia gas in air (by volume) are Lower 16%, Upper 25%

| Autoignition Temperature | Not a | pplicak | ole | | | |
|--------------------------|--------|---------|-----|-------|-----|----------------------|
| Extinguishing Media | Water | spray | or | fog | or | extinguishing agents |
| | suital | ble to | the | e sui | rou | unding fire |

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighting procedures are based on possible escaping ammonia gases. Keep unauthorized personnel away. Wear full protective clothing and selfcontained breathing apparatus. Stay upwind. Stop spill/release if it can be done without risk. Apply water spray to knock down and absorb ammonia vapors. Control runoff waters. Ventilate closed spaces before entering. Always stay away from the ends of tanks.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Ammonium sulfate solutions are used as fire retardants. Fire can evaporate product to dryness leaving cyrstals of ammonium sulfate. At high temperatures this solution may release toxic fumes of ammonia, and nitrogen and sulfur oxides.

| | NFPA SCALE |
|---|------------|
| 1 | 0 Least |
| | 1 Slight |
| 0 | 2 Moderate |
| | 3 High |
| 0 | 4 Extreme |
| | 0 |

6. ACCIDENTAL RELEASE MEASURES

First Choice Ultra Pro is formulated for use on plants. However, large spills could possibly damage vegetation or cause illness in animals. Contamination of waterways could possibly cause fish kills. Dike spill area to prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways. Keep children, animals, and unauthorized personnel away from spills.

Pump spilled material into suitable containers for removal. Flush area with water, contain and remove cleanup liquid. Small amounts of spilled solution may be absorbed using appropriate absorbent material. As conditions warrant, notify proper authorities, downstream sewer and water treatment operations, and other downstream users about potentially contaminated water.

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|---------|---------|------|----------|------|----------|------|---|
|---------|---------|------|----------|------|----------|------|---|

| MSDS NO. 417 | PRODUCT First Choice Ultra Pro | | | | |
|--|--|---|--|--|--|
| 7. HANDLING AND STORAGE | | | | | |
| Hygienic Practices | It is advisable to wash promptly if skin becomes contaminated; before eating, drinking, using tobacco, or chewing gum; before using toilet facilities; and at the end of the work shift before leaving worksite. | | | | |
| Storage | Store in cool, well-ventilated areas. If product is packaged in steel, keep at temperatures below 17LF (76.'C). If product is packaged in plastic, keep at temperatures below 15_F (65.LC). | | | | |
| 8. EXPOSURE CONTRO | LS/PERSONAL P | PROTECTION | | | |
| Exposure Limits | No exposure | limits have been set for this solution. | | | |
| Ventilation | None require | ed under normal conditions. | | | |
| Eyes | Chemical protective goggles should be used where splashing may occur and when transferring solutions. | | | | |
| Skin | Wear rubber or neoprene gloves for transfer operations or where splashing may occur. If irritation occurs, impervious clothing and gloves should be worn. | | | | |
| Respiratory | None require | ed under normal conditions. | | | |
| 9. PHYSICAL AND CH | EMICAL PROPER | RTIES (typical) | | | |
| Boiling Point Freezing Point | | 21. F (10_ C) <3. F (. C) | | | |
| Vapor Pressure Vapor Density (air Percent Volatile (Evaporation Rate | = 1) by Volume) | Not knwon Not known Not known Not known | | | |
| Solubility in Water | | Complete 6.0 | | | |
| pH Salt-out Temperature | | <2L F (-6.'. C) | | | |
| Bulk Density Specific Gravity (J_O=1) | | 10.18 lbs/gal 1.222 @ 6. F (2L C) | | | |
| Appearance and Odor | | Hazy, colorless to light tan liquid Very slight odor | | | |
| | | | | | |

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MSDS NO. 417 PRODUCT First Choice Ultra Pro 10. STABILITY AND REACTIVITY Stability Stable under normal conditions of use and storage Hazarous Polymerization Will not occur Incompatiblility Ammonium sulfate crystals can sensitize strong oxidizers such as chlorates, nitrates, or nitrites, making them more reactive in fire conditions. Hazardous Decomposition Products At high temperatures may release toxic fumes of ammonia, and nitrogen and sulfur oxides. Conditions to Avoid Avoid temperatures above 17. F (76. C) or 15. F (65. C) if stored in plastic.

11. TOXICOLOGICAL INFORMATION

Published health information about ingredients includes the following:

Ammonium sulfate TDLo = 1500 mg/kg (oral, man) caused nausea or vomiting, hypermotility, diarrhea, other changes

POTENTIAL CARCINOGEN DATA (IARC, NTP, OSHA)

None found for this solution

FOR HEALTH EMERGENCIES CALL YOUR LOCAL POISON CENTER

12. ECOLOGICAL INFORMATION

No data found

First Choice Ultra Pro is formulated for use on plants. However, large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.

13. DISPOSAL CONSIDERATIONS

If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal precedures and disposal locations.

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14. TRANSPORTATION INFORMATION

| DOT Proper Shipping Name DOT Hazard Class ID No. Packaging Group NA ERG No. | Not applicable This solution not regulated by DOT Not listed Not applicable Not applicable |
|---|---|
| Label/Placard Required | None |
| Freight Description | Fertilizing compound (manufactured) liquid |
| FOR TRANSPORTATION EM | ERGENCIES CALL CHEMTREC 1-800-424-9300 |
| 15. REGULATORY INFORMATION Reportable Quantity - CERCLA | None established |
| SARA Title III (EPCRA) | Ammonium sulfate solution is subject to the reporting requirements of Section 313 (40 CFR Part 372) |
| CAS# Che 7783-20-2 Ammo | mical name Percent by weight nium sulfate 38 |
| EPA NATIONAL | RESPONSE CENTER 1-800-424-8802 |
| 16. OTHER INFORMATION | |
| DATE PREPARED | April 14, 1997 Revised May 11, 1997: Additions to Sections 1,5, and 9 Revised July 24, 1997: Sections 3 and 15 |
| NAME OF RESPONSIBLE PARTY | Western Farm Service, Inc. |

P.O. Box 1168 Fresno, California 93715 (209) 436-0450

NOTICE

All information appearing in this document is based on data provided by third party sources and is compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.

Western Farm Service, Inc., makes no warranty of merchantability, fitness for any purpose or otherwise, express or implied, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on the label.

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