



# Safety Data Sheet

Report Date 19-Apr-16

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## 1. Identification

**Product Name** : ASULAM 4F (EPA REG. NO. 70506-139-5905)  
**Synonyms** : None  
**Product Use** : Postemergent Herbicide  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : Causes skin irritation  
**Eye Irritation** : Causes serious eye damage  
**Acute Toxicity Oral** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
**Acute Toxicity Dermal** : LD50 >2,000 mg/kg (rabbit)

**Hazard Categories** : Dermal/Inhalation Toxicity-4/3; Eye/Skin Irritation-1/2; Skin Sensitization-1

**Hazard Statement** : Harmful in contact with skin  
Causes serious eye damage  
Causes skin irritation  
Toxic if inhaled  
May cause an allergic skin reaction

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Asulam technical	2302-17-2	35-37
Proprietary formulation aids	Proprietary	63-65

## 4. First Aid Measures

**Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin** : Remove and wash contaminated clothing before reuse. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** : Call a physician or poison control center immediately. Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

**Ingestion** : Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically.



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### 5. Fire Fighting Measures

- Extinguishing Media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide, dry chemical, foam or water extinguishing agents are preferred.
- Specific Hazards Arising from the Chemical** : May produce carbon oxides, oxides of nitrogen and sulfur oxides under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

- Personal Precautions** : Avoid contact with the skin and the eyes. Provide adequate ventilation. Use personal protective equipment.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. For emergencies, use an approved full face positive-pressure, self-contained breathing apparatus. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike spilled product to prevent spreading. Keep spilled product out of lakes, streams, ponds or drains.
- Methods and Materials for Containment and Cleanup** : Absorb with an inert material, such as clay, sand or soil. Collect absorbents and place in suitable containers for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Wear personal protective equipment. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.
- Conditions for Safe Storage** : Keep in a dry, cool and well-ventilated place. Do not transport or store at temperatures below -6 Degrees C. Keep containers tightly closed in a cool, well-ventilated place. Avoid contact with acids.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Does not contain any hazardous materials with occupational exposure limits.
- Appropriate Engineering Controls** : Local mechanical exhaust ventilation is preferred.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator where airborne exposure is likely. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Brown liquid; odorless.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : 104 Degrees C.
- Melting Point(Freezing point), °C** : 8.5 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not available
- Vapor Density** : Not available
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.18



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Evaporation Rate(Butyl Acetate = 1) : Not available  
Octanol/Water Partition Coefficient : Not available  
pH : 7.5 (approximate)  
Flammable Limits (approximate volume % in air) : No information found  
Auto-ignition Temperature : No information available  
Decomposition temperature : Not available

### 10. Stability and Reactivity

Reactivity : No data available  
Chemical Stability : Stable  
Hazardous Decomposition Products : Carbon oxides, Nitrogen oxides, Sulfur oxides  
Hazardous Polymerization : Will not occur  
Conditions to Avoid : Freezing temperatures  
Incompatible Materials : Acids

### 11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit). Harmful in contact with skin.  
Acute Toxicity Inhalation LC50 : >5 mg/L/4-hour (rat)(vapors). Toxic if inhaled.  
Likely Routes of Exposure : Inhalation, Skin, Eyes  
Skin Irritation : Causes skin irritation.  
Eye Irritation : Causes serious eye damage.  
Skin Sensitization : May cause an allergic skin reaction.  
Carcinogenic : EPA has classified asulam as a Group C-possible human carcinogen. Not listed by NTP, IARC or OSHA.  
Chronic Effects : None currently known.  
Other Hazards : None currently known.

### 12. Ecological Information

Ecotoxicity : Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.  
Persistence and Degradability : No information found  
Bioaccumulative Potential : No information found  
Mobility in Soil : No information found  
Other Adverse Effects : Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas.

### 13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.



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### 14. Transport Information

**UN Proper Shipping Name** : Not regulated by DOT, IATA or IMDG.  
**Transport Hazard Class** : None  
**UN Identification Number** : None  
**Packaging Group** : None  
**Environmental Hazards** : No information found  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : No information found  
**Freight Classification** : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

### 15. Regulatory Information

**National Fire Protection Association Rating** :  
Health: 2 Fire: 0 Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No)** :  
Immediate( Acute) Health: Y  
Delayed (Chronic) Health: N  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number** : 70506-139-5905  
**FIFRA Signal Word** : Caution  
**FIFRA Label Statement** : Keep out of reach of children.  
**FIFRA Label Statement** : Harmful if absorbed through skin.  
**FIFRA Label Statement** : Avoid contact with skin, eyes or clothing.  
**FIFRA Label Statement** : Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.  
**FIFRA Label Statement** : Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.  
**FIFRA Label Statement** : No additional label statements.  
**FIFRA Label Statement** : No additional label statements.

### 16. Other Information

**Data of Preparation/Revision** : 19-April-2016