

Report 19-Apr-16 Date

Page 1 of 4

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

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

Composition / Information on Ingredients

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

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 : Treat symptomatically.

Attention and Special Treatment

Needed



Report 19-Apr-16 Date

Page 2 of 4

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.

Chemical

Specific Hazards Arising from the : 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.

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.

: Dike spilled product to prevent spreading. Keep spilled product out of lakes, **Emergency Procedures**

streams, ponds or drains.

Methods and Materials for : Absorb with an inert material, such as clay, sand or soil. Collect absorbents and

place in suitable containers for proper disposal. **Containment and Cleanup**

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.

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.

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, q/mL @ 25 °C : 1.18



Report 19-Apr-16

Page 3 of 4

Evaporation Rate(Butyl Acetate = : Not available

1)

Octanol/Water Partition : Not available

Coefficient

pH: 7.5 (approximate)

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature: No information available

Decomposition temperature: Not available

10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable

Hazardous Decomposition : Carbon oxides, Nitrogen oxides, Sulfur oxides

Products

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.



Report Date 19-Apr-16

Page 4 of 4

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 : No information found

Transportation

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 N
Pressure:
Fire: 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