

MATERIAL SAFETY DATA SHEET

WINFIELD SOLUTIONS, LLC
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PRODUCT NAME(S)

For Medical Emergency Call: 877-424-7452
or for Chemical Emergency (Spill, leak, fire,
exposure, or accident Call:
Chem Trec: 800-424-9300

ASULAM

Effective Date: 09/07/07

I. IDENTIFICATION

CHEMICAL NAME OF PRIMARY COMPONENT(S): Sodium salt of methyl sulfanylcarbamate

FORMULA: C₈H₁₀N₂SO₄ Na

MOLECULAR WEIGHT: 253.24

SYNONYMS: Asulam - sodium

CAS # & NAME: 2302-17-2 Sodium salt of
asulam

EPA Reg No. 9779-342

II. INGREDIENTS/SUMMARY OF HAZARDS

(H)/INGREDIENT(S)	CAS NUMBER	OSHA HAZARD NON-HAZARD (NH)	PERCENT
Sodium salt of asulam	2302-17-2	H	36.2
Formulation aids		NH	63.8

	NFPA ^{1/}	HMIS ^{2/}
HEALTH	1	1
FIRE	0	0
REACTIVITY	0	0

1/ National Fire Protection Association Rating
2/ Hazardous Materials Identification System

(4 = Extreme/Severe 3 = High/Serious 2 = Moderate 1 = Slight 0 = Minimum)

SARA TITLE III HAZARD CLASSIFICATION

IMMEDIATE (ACUTE) HEALTH	Yes
DELAYED (CHRONIC) HEALTH	Yes
FIRE	No
SUDDEN RELEASE OF PRESSURE	No
REACTIVE	No

III. PHYSICAL DATA

SPECIFIC GRAVITY: 1.181
BOILING POINT: 219° F (104°C)
FREEZING POINT: Not determined
VAPOR PRESSURE: Negligible
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: Insoluble
APPEARANCE: Brown liquid
ODOR: Odorless

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Non combustible
FLAMMABLE LIMITS IN AIR: Not determined
AUTOIGNITION TEMPERATURE: Not determined
EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer or ordinary) for large fires.
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should use self contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion may be hazardous.

V. REACTIVITY DATA

STABILITY: Stable under normal conditions
CONDITIONS TO AVOID: Prolonged storage at or below 20°F (-6.6°C), do not allow to freeze.
MATERIALS TO AVOID: Acids
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides and sulfur oxides.
HAZARDOUS POLYMERIZATION: Will not occur

VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

TOXICOLOGY DATA:
Acute Oral LD₅₀ (rat): > 5000 mg/kg
Acute Dermal LD₅₀ (rabbit): > 2000 mg/kg
Acute Inhalation(4hr rat): > 5 mg/L (on technical)
Eye Irritation (rabbit): Slight irritation
Dermal Irritation (rabbit): No irritation.
Dermal Sensitization: There are no indications that this product will cause dermal sensitization.

EXPOSURE LIMITS:

CHEMICAL NAME(S)	ACGIH (TLV)	OSHA (TWA)
Asulam	Not established	Not established

CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY: Not listed as a carcinogen by NRC, IARC or OSHA. Based on long term feeding studies, asulam is suspected of producing adrenal tumors.

SIGNS OF POISONING: Nausea, dizziness, headaches, CNS depression

PRIMARY ROUTES OF ENTRY: Skin and/or eye contact

EFFECTS OF SINGLE OVEREXPOSURE:

Swallowing: No evidence of adverse effects from available information.

Skin Absorption: No evidence of adverse effects from available information.

Inhalation: No evidence of adverse effects from available information.

Eye Contact: Causes eye irritation, tearing and redness.

EFFECTS OF REPEATED OVEREXPOSURE: Prolonged or repeated overexposure may cause skin and/or eye irritation.

OTHER EFFECTS OF OVEREXPOSURE: None known

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate preexisting skin conditions. Inhalation of mists may aggravate preexisting respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES:

Swallowing: Call physician or poison control center. If patient is alert and not convulsing give 1 - 2 glasses of water and induce vomiting by tickling the back of the throat or administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

Skin: Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention if irritation develops and persists.

Inhalation: Remove victim to fresh air. If not breathing, administer artificial respiration. GET MEDICAL ATTENTION

Eyes: Hold eyelids open and flush with a steady stream of water for at least 15 minutes. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

No specific antidote is available. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike the area using absorbent or materials such as sand or clay. Recover and contain as much product as possible using absorbent. Clean spill area using a solution of water and detergent. Collect and contain wash water and all contaminated absorbent for disposal. If spilled on the ground, the affected area should be excavated to a depth of 1 - 2 inches. Prevent the spilled product or washings from reaching public sewers or waterways. Wear appropriate protective equipment during the cleanup. Ensure that tools and equipment are adequately decontaminated.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

CONTAINER DISPOSAL: Dispose of in an approved facility according to federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool dry area away from sources of heat. Do not allow to freeze.

VIII. SPECIAL PROTECTION INFORMATION

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Any other activity that may result in hazardous exposures.
- Refer to product label for PPE required for labeled use.

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirator for organic vapors when vapor concentrations are high. Use positive pressure self contained breathing apparatus for emergency conditions where exposure limits are exceeded.

VENTILATION: Local exhaust

PROTECTIVE CLOTHING: Chemical resistant gloves, coveralls, apron and foot coverings.

EYE PROTECTION: Safety glasses/goggles

USER SAFETY RECOMMENDATIONS: Safety showers and eye wash should be easily accessible.

IX. REGULATORY STATUS

TSCA INVENTORY STATUS:

TRANSPORTATION STATUS:

DOT INFORMATION: Not regulated

Container Capacity	Proper Shipping Name	Hazard Class	Label	Packing Group

SARA TITLE III

Section 302-304 (40 CFR 350):

Extremely Hazardous Substance (EHS): Not listed

Section 312, Reporting (40 CFR 370):

SARA/OSHA Hazardous Chemical Reporting Quantity: Not applicable

Section 313, Toxic Chemicals: Not listed

Reportable Quantity (RQ): Not listed

RCRA HAZARDOUS WASTE: Not listed

International Right-To-Know Regulations:

X. REFERENCES

- 1) Supplier sponsored studies.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH,
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