# SAFETY DATA SHEET

Issuing Date 28-Jun-2006 Revision Date 14-Oct-2019 Revision Number 4

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### **Product Identifier**

Product Name ASULAM 400 HERBICIDE

#### Other means of identification

Product Code 2106100
CAS Number MIXTURE
Formula C8H9N2NaO4S

Synonyms Active ingredient: Carbamic Acid, ((4-Aminophenyl)Sulfonyl)-, Methyl Ester,

Monosodium Salt; Asulam Sodium Salt

EPA Registration Number 2749-523

#### Recommended use of the chemical and restrictions on use

Recommended Use Agriculture

**Uses advised against**Do not use where contact with food or drinking water is possible. Avoid prolonged

contact with eyes, skin, and clothing.

### Details of the supplier of the safety data sheet

Supplier Address ACETO LIFE SCIENCES, LLC

4 Tri Harbor Court

Port Washington, NY 11050-4661

Phone: (516) 627-6000 Fax: (516) 627-6093 Email: aceto@aceto.com

#### **Emergency Telephone Number(s)**

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin Corrosion/Irritation	Category 2
Carcinogenicity	Category 2

#### Label elements

### **Emergency Overview**

# Signal Word

### Warning

#### Hazard statements

Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Suspected of causing cancer



AppearancePhysical StateOdorYellow to BrownLiquidNegligible

#### **Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label) IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None known

#### Other Information

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Active ingredient:Carbamic Acid, ((4-Aminophenyl)Sulfonyl)-, Methyl Ester, Monosodium

Salt; Asulam Sodium Salt

Formula C8H9N2NaO4S

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Methylsulfanilycarbamate	2302-17-2	36.2	True
Other Ingredients	N/A	63.8	False

# 4. FIRST AID MEASURES

#### **First Aid Measures**

Revision Date 14-Oct-2019

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a physician or poison control center immediately.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. Call a physician or poison

control center immediately.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician or poison control center immediately.

**Ingestion**Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth

to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<u>Flammable properties</u> Not available.

<u>Suitable Extinguishing Media</u>
Water spray. Alcohol-resistant foam. Dry chemical. Carbon

dioxide (CO2).

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

Thermal decomposition or combustion may produce hazardous

gases and/or materials.

Explosion Data Not available

**Sensitivity to mechanical impact** Not available. **Sensitivity to static discharge** Not available.

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid contact with eyes,

skin and clothing. Use personal protective equipment as required. In case of insufficient

ventilation, wear suitable respiratory equipment.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Prevent

further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface

water or sanitary sewer system. Should not be released into the environment.

2106100 ASULAM 400 HERBICIDE Revision Date 14-Oct-2019

#### Methods and material for containment and cleaning up

Methods for Clean-up Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth),

then place in a chemical waste container. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

### **Precautions for safe handling**

**Handling**Use only in an area equipped with a safety shower. Ensure that eyewash stations and

safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated

exposure.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Keep in properly labeled containers.

Incompatible Materials Strong Acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylsulfanilycarbamate 2302-17-2	-	-	-
Other Ingredients N/A	-	-	-

#### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tight sealing safety goggles.

**Skin and body protection** Use suitable eye protection and gloves.

**Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Yellow to Brown

Physical State Liquid
Odor Negligible

Odor Threshold No information available

Property Values Remarks • Method

Н

Melting point / Freezing point (Asulam Sodium Salt) 212 - 215 °C Literary Reference

2106100 ASULAM 400 HERBICIDE

Revision Date 14-Oct-2019

No information available

Estimated

Boiling point / boiling range No information available

Flash Point No Data Available

Evaporation Rate No information available

Flammability (solid, gas) No information available

Flammability Limit in Air No

information available

Upper flammability limit No information available

Lower flammability limit Not available

Vapor Pressure No information available

Vapor DensityNot availableSpecific Gravity1.18 g/mlWater SolubilitySoluble

Solubility in other solvents No information available

Partition coefficient: n-octanol/waterNot available
Autoignition temperature °C No Data Available
Decomposition temperature No Data Available
Kinematic Viscosity No information available

Dynamic Viscosity Not available

Explosive Properties

Oxidizing Properties

No information available
No information available

Other Information

Softening Point No information available

Molecular Weight 252.2

VOC contentNo information availableLiquid DensityNo information availableBulk densityNo information availableCorrosion characteristicsNo information available

### 10. STABILITY AND REACTIVITY

**Reactivity** Not applicable.

Chemical Stability Stable under normal conditions

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials Strong Acids.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

Sulfur oxides. Sodium oxides.

Possibility of Hazardous Reactions None under normal processing

### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylsulfanilycarbamate	= 2 g/kg (Rat)	> 2 g/kg (Rabbit) > 9400	-
		μL/kg (Rat)	
Other Ingredients	-	-	-

The following values are calculated based on chapter 3.1 of the GHS document .

2106100 ASULAM 400 HERBICIDE Revision Date 14-Oct-2019

#### Information on likely routes of exposure

**Eyes** Avoid contact with eyes.

**Skin** Harmful in contact with skin. Irritating to skin. Avoid contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed. Do not take internally.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Suspected of causing cancer. EPA has classified asulam as a Group C, possible human

carcinogen, based upon thyroid and adrenal tumors in the rat.

**Irritation** Eye, rabbit: mild

Serious eye damage/irritation No information available.

**Skin Corrosion/Irritation**No information available.

**Sensitization** No information available.

**Reproductive Effects** No information available.

Mutagenic Effects No information available.

**Developmental Effects** No information available.

**STOT - single exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Chronic Toxicity** Avoid repeated exposure.

Target Organ Effects Eyes, Skin, Thyroid, Adrenals.

**Aspiration Hazard** No information available.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

There is no known ecological information for this product

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methylsulfanilycarbamate 2302-17-2	-	-	-	-
Other Ingredients N/A	-	-	-	-

Persistence/Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Revision Date 14-Oct-2019

#### 2106100 ASULAM 400 HERBICIDE

Mobility in Soil No information available.

Chemical name	log Pow =
Methylsulfanilycarbamate 2302-17-2	-
Other Ingredients N/A	-

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance to EPA Pesticide Label

Instructions.

**Contaminated Packaging** Dispose of in accordance to EPA Pesticide Label Instructions.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

<u>IATA</u> Not regulated

**IMDG** Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

# International Inventories

**TSCA** Does not comply Canada (DSL) Does not comply **EU (EINECS)** Does not comply **EU (ELINCS)** Does not comply Japan (ENCS) Does not comply China (IECSC) Does not comply Korea (KECL) Does not comply Philippines (PICCS) Does not comply Does not comply Australia (AICS) **Mexico INV** Does not comply **Taiwan INV** Does not comply

Chemical name	U.S.A. (TSCA)	Canada (D	SL)	EU (	(EINECS)		EU (ELINCS)
Methylsulfanilycarbamate	=	-	-		X		=
Other Ingredients	-	-	-		-		-
Component	Japan (ENCS)	China (IECSC)	Korea	(KECL)	Philippines (Pl	CCS)	Australia (AICS)

	=	-	-	=	Present	
	-	-	-	-	-	
Chemical name		Me	Mexico INV		Taiwan INV	
Methylsulfanily 2302-			-		-	
Other Ingredients N/A			-		-	

This material as a whole is exempt from the TSCA Inventory, FIFRA Regulated Pesticides, and Canadian PMRA Regulations.

# Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

#### **VOC** content

This Product does not contain any VOCs

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# State Regulations

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

# State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

#### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

### Canada

### **WHMIS Statement**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

# **16. OTHER INFORMATION**

**NFPA** Health 1

Flammability 0

**Instability** 0

Physical Hazard 0



**Issuing Date Revision Date Revision Summary** Not available

28-Jun-2006 14-Oct-2019

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**