



SAFETY DATA SHEET

Preparation Date 05-Jan-2009

Revision Date 18-Aug-2015

Revision Number 3

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

Product Identifier

Product Name **PROFINE 75 HERBICIDE**

Other means of identification

Product Code 2121102
CAS Number 100784-20-1 (Halosulfuron Methyl)
Formula C₁₃H₁₅CIN₆O₇S (Halosulfuron Methyl)
Synonyms 1H-Pyrazole-4-Carboxylic Acid,
3-Chloro-5-[[[(4,6-Dimethoxy-2-Pyrimidinyl)Amino]Carbonyl]Amino]Sulfonyl]-1-Methyl-, Methyl Ester (9CI)
EPA Registration Number 2749-528

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture
Uses advised against Repeated contact with food. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO AGRICULTURAL CHEMICALS CORPORATION
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
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2

Label elements

Emergency Overview

Signal Word

Warning

Hazard statements

Harmful if swallowed
 Harmful in contact with skin
 Harmful if inhaled
 Causes serious eye irritation
 Very toxic to aquatic life with long lasting effects



Appearance

Light tan Powder

Physical State

Solid

Odor

Mild Soapy

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Call a POISON CENTER or doctor/physician if you feel unwell
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

25 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

1H-Pyrazole-4-Carboxylic Acid,
 3-Chloro-5-[[[(4,6-Dimethoxy-2-Pyrimidinyl)Amino]Carbonyl]Amino]Sulfonyl]-1-Methyl-,
 Methyl Ester (9CI)

Formula C13H15ClN6O7S (Halosulfuron Methyl)

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Halosulfuron Methyl	100784-20-1	75	True
Other Ingredients	N/A	25	False

4. FIRST AID MEASURES

First Aid Measures

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 Centre immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a physician or Poison Control Centre immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Water spray. Carbon dioxide (CO2). Dry powder. Foam.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. 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 material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

- Methods for Cleaning up** Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. 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/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

- Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep out of the reach of children. Protect from moisture.
- Incompatible Materials** Reducing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Guidelines** This product 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
Halosulfuron Methyl 100784-20-1	-	-	-
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** Tightly fitting safety goggles.
- Skin and body protection** Impervious gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.
- Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. For additional information consult the EPA Pesticide

Label.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Light tan Powder
Physical State	Solid
Odor	Mild Soapy
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting/freezing point	168 - 171 °C	Literary Reference
Boiling Point/Range	No information available	
Flash Point	No data available	No information available
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	Not available	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	Insoluble	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temp (°C)	No data available	Estimated
Decomposition temperature	No data available	
Viscosity, kinematic	No information available	
Viscosity, dynamic	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	434.85
VOC Content	No information available
Density	No information available
Bulk Density	36.1 - 38.2 lbs/ft3

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames and sparks. Avoid moisture.
Incompatible Materials	Reducing agents. Acids.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). Sulfur oxides. Hydrogen chloride gas.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Oral LD50	1,287 mg/kg; (rat)
Dermal LD50	> 5,000 mg/kg; (rat)
LC50 Inhalation:	> 5.7 mg/L; 4H; (rat)

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

ATEmix (oral)	429 mg/kg
ATEmix (dermal)	1100 mg/kg

Information on likely routes of exposure

Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Harmful in contact with skin. Substance may cause slight skin irritation. Avoid contact with skin.
Inhalation	Harmful by inhalation. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Avoid breathing dust.
Ingestion	Harmful if swallowed. Do not ingest.

Information on toxicological effects

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Skin,rabbit: Slightly ; Eye,rabbit: Moderately
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.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product Information

Acute Toxicity	25 % of the mixture consists of ingredient(s) of unknown toxicity
ATEmix (inhalation-gas)	4500 mg/L
ATEmix (inhalation-dust/mist)	1.5 mg/L
ATEmix (inhalation-vapor)	11 mg/L
Oral LD50	1,287 mg/kg (rat)
Dermal LD50	> 5,000 mg/kg (rat)
LC50 Inhalation:	> 5.7 mg/L 4H (rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

25 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence / Degradability No information available.

Bioaccumulation / Accumulation No information available.

Mobility in Soil No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method 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

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

U.S.A. (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 Does not Comply
Korea (KECL) Does not Comply
Philippines (PICCS) Does not Comply
Australia (AICS) Does not Comply

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
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Halosulfuron Methyl	-	-	-	-
Other Ingredients	-	-	-	-
Component	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)
Halosulfuron Methyl 100784-20-1 (75)	-	-	Present	-
Other Ingredients N/A (25)	-	-	-	-
Chemical Name	Mexico INV		Taiwan INV	
Halosulfuron Methyl 100784-20-1	Present		-	
Other Ingredients N/A	-		-	

This material as a whole is exempt from the TSCA Inventory // FIFRA Regulated Pesticide

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 Hazardous Categorization

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

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**

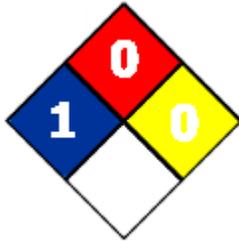
Health 1

Flammability 0

Instability 0

Physical Hazard 0

HMIS



Preparation Date

05-Jan-2009

Revision Date

18-Aug-2015

Revision Summary

Not available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS