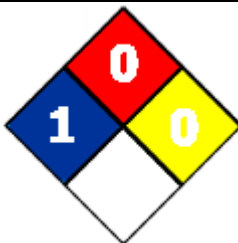




Material Safety Data Sheet

NFPA	Transport Symbol
	Not regulated

Preparation Date 05-Jan-2009

Revision Date 24-Jun-2011

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 2121102
Product Name PROFINE 75 HERBICIDE
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)
CAS Number 100784-20-1 (Halosulfuron Methyl)
EPA Registration Number 2749-528
Contact
ACETO AGRICULTURAL
CHEMICALS CORP.
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: regulatory@aceto.com
ChemTrec Emergency Telephone Numbers 1-800-424-9300
1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful if swallowed. May be harmful if inhaled. May be harmful in contact with skin. Irritating to eyes. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. May cause skin irritation.

Appearance Light tan, Powder.

Physical State Solid.

Odor Mild, Soapy

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Mexico - Grade Not available

Potential Health Effects

Principle Routes of Exposure Skin contact, Inhalation.

Acute Effects

Eyes Slight irritation. Avoid contact with eyes.

Skin May be harmful by skin contact. Substance may cause slight skin irritation. Avoid contact with skin.

Inhalation May be harmful if inhaled. May cause irritation of the mucous membranes. May cause irritation of respiratory tract.

Ingestion Harmful if swallowed.

Additional Acute Effects None reasonably foreseeable.

Chronic Effects Avoid repeated exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects Refer to approved EPA Label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number 100784-20-1 (Halosulfuron Methyl)

Formula C₁₃H₁₅CIN₆O₇S (Halosulfuron Methyl)

Hazardous Components

Chemical Name	CAS-No	Weight %
Halosulfuron Methyl	100784-20-1	75

Non-hazardous Components

Chemical Name	CAS-No	Weight %
Other Ingredients	N/A	25

4. 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.
Notes to Physician	Treat symptomatically
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not available
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO2). Dry powder. Foam.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Thermal decomposition or combustion may produce hazardous gases and/or materials.

Explosion Data

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

NFPA **Health 1** **Flammability 0** **Instability 0**

6. ACCIDENTAL RELEASE MEASURES

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. 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 for Containment	Not available

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.
Other Information	Not applicable

7. HANDLING AND STORAGE

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. Wash hands before breaks and immediately after handling the product. Avoid repeated exposure.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Protect from moisture.

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.
Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles.
Skin Protection	Protective gloves. Long sleeved clothing. Shoes plus socks.
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

Appearance	Light tan, Powder
Physical State	Solid
Odor	Mild, Soapy
pH	4.8(1%aq. sol) (@22°C)
Flash Point	Not available
Autoignition Temperature	Not available
Boiling Point/Range	Not available
Melting Point/Range	168 - 171°C

Flammability Limits in Air	Lower Not available	Upper Not available
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	Not available	
Bulk Density	36.1 - 38.2 lbs/ft ³	
Water Solubility	Insoluble	
Reactivity in Water	Not available	
Molecular Weight	434.85	

10. STABILITY AND REACTIVITY

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

Acute Toxicity

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

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Irritation	Skin,rabbit: Slightly ; Eye,rabbit: Moderately
Corrosivity	Not available
Sensitization	Not available
Neurological Effects	Not available
Mutagenic Effects	Not available
Reproductive Effects	Not available
Developmental Effects	Not available
Target Organ Effects	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Refer to approved EPA Label.

Persistence / Degradability Not available

Bioaccumulation / Accumulation Not available

Mobility in Soil Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance to EPA Pesticide Label Instructions.

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

US EPA Waste Number Not available

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

2121102 - PROFINE 75 HERBICIDE

Canada (DSL) Does not Comply
EU (ELINCS) Does not Comply
EU (EINECS) 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)
Halosulfuron Methyl	-	-	-	-
Other Ingredients	-	-	-	-

Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
Halosulfuron Methyl	-	-	99-3-1156	-	-
Other Ingredients	-	-	-	-	-

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

USA

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

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

This product does not contain any HAPs.

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Canada

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.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By	Environmental Health and Safety, Regulatory Affairs
Preparation Date	05-Jan-2009
Revision Date	24-Jun-2011
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