

SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Cleat 75WG Herbicide
CAS No. : 101200-48-0 (Active ingredient)
EPA Registration Number : 83100-31

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Agriculture herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Agrochemical Company Ltd.
26/F, E-Trade Plaza
24 Lee Chung Street
Chaiwan, Hong Kong
Phone: 1-(866) 927-6826 (toll free); 1-(336) 346-8802
msds@rotam.com

1.4. Emergency telephone number

Emergency numbers : 1-800-858-7378 (NPIC)
1-800-222-1222 (Poison Control Center)
(800)-424-9300, (703)-527-3887 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

<u>Hazard Class</u>	<u>Category</u>	<u>Hazard Statement</u>
Aquatic Toxicity (Acute)	1	H400
Aquatic Toxicity (Chronic)	1	H401

If applicable, full text of H-phrases appear in "Label elements" below

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling

Hazard pictograms (CLP) :



GHS09

Cleat 75WG Herbicide

Safety Data Sheet

Signal word (CLP)	: Warning
Hazard statements (CLP)	: H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P273 - Avoid release to the environment P391 - Collect spillage P501 - Dispose of contents/container to local regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Name	Product identifier	%
Tribenuron-methyl	(CAS No.) 101200-48-0	75%
Inert Ingredients	NA	Balance

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED	: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation develops or persists.
IF IN EYES	: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice if irritation develops or persists.
IF SWALLOWED	: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person
First-aid measures – general	: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. See Label for Additional Precautions and Directions for Use.
Notes to Physician	: The compound does not cause any definite symptoms that would be diagnostic. No specific antidote. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: High volume water jet. (Water contamination risk from runoff)

Cleat 75WG Herbicide

Safety Data Sheet

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO_x).
- Explosion hazard : Product is not explosive.
- Reactivity : The product is stable at normal handling and storage conditions.

5.3. Advice for firefighters

- Firefighting instructions : Prevent runoff from entering drains, sewers or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots. Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.1.1. For non-emergency personnel

- Protective equipment : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots.
- Emergency procedures : Avoid contact with spilled material

6.1.2. For emergency responders

- Protective equipment : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots.

6.2. Environmental precautions

Prevent material from entering sewers, waterways, or low areas. Do not allow material to contaminate water systems.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Large spills: Absorb with non-combustible absorbent. .Scoop solid spill into closed containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in original container. Store in a cool, dry place. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep out of the reach of children.

Cleat 75WG Herbicide

Safety Data Sheet

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Exposure limits have not been established for the ingredients in this product

8.1. Personal protective equipment

Applicators and other handlers must wear:

Long sleeved shirt and long pants
Chemical-resistant gloves, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils. Shoes plus socks

PPE required for early entry to treated areas that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls. Chemical-resistant gloves, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils. Shoes plus socks

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid, rod shape granule
Color	: Off white
Odor	: Mild characteristic Odor
Odor threshold	: No data available
pH	: 6.43 at 25 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.1225 at 20 °C
Density	: Pour density 0.476 g/ml at 23 °C Tap bulk density 0.513 g/ml at 23 °C
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available

Cleat 75WG Herbicide

Safety Data Sheet

Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Non explosive
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

All heat sources.

10.5. Incompatible materials

Strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Cleat 75WG Herbicide	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.7 mg/l/4h

Skin corrosion/irritation	: Not irritating to skin
Serious eye damage/irritation	: Not irritating to eyes per GHS classification criteria
Respiratory or skin sensitization	: Not a sensitizer
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

Cleat 75WG Herbicide

Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

LC ₅₀ fishes	738 mg/l (rainbow trout)
EC ₅₀ Daphnia	894 mg/l
ErC ₅₀ (algae)	20.8 µg/l(Green algae)
ErC ₅₀ (Lemna)	4.24 µg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Tribenuron-methyl	
Log Kow	0.78 (pH 7, 25°C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

SECTION 14: Transport information

Not Regulated by US DOT or Canadian TDG for ground shipment

Ground transport

Not Regulated by US DOT

Not Regulated by Canadian TDG

Transport by sea (IMDG)

UN 3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl); 9; III; Marine Pollutant

Air transport (IATA)

UN 3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl); 9; III

Additional Air, Sea and International Transportation Information

UN-No. : 3077
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl)

Cleat 75WG Herbicide

Safety Data Sheet

Transport document description	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl), 9, III
Class (UN)	: 9
Hazard labels (UN)	: 9



Packing group (UN)	: III
Marine Pollutant (Y/N)	: Y
Dangerous for the environment	:



SECTION 15: Regulatory information

FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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:

Signal word	: CAUTION
Hazard statements	: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation.
Precautionary statements	: Avoid contact with eyes or clothing. Wear protective eye wear (if appropriate). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (such as Natural Rubber, Selection Category A). Remove and wash contaminated clothing before use.

SARA 313 Regulated Chemical(s): Tribenuron methyl

Title III hazard classification:

Acute Health Hazard: No
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No

Canadian Regulatory Information:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2B - Toxic

SECTION 16: Other information

NFPA: Health: 1; Flammability: 0; Reactivity: 0; Specific:
HMIS: Health: 1; Flammability: 0; Physical Hazard: 0; PPE: E

SDS US

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