



Safety Data Sheet

Preparation Date 11-Feb-2020

Revision date 01-Aug-2025

Revision Number: 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description Current 240 EC

Other means of identification

Internal SDS code 12U-CLOL

Registration number(s) PMRA 30743

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL Agrosolutions Canada Inc .
PO Box 12219
Research Triangle Park, NC,
27709

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|-------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Reproductive Toxicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Aspiration toxicity | Category 1 |

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

May be fatal if swallowed and enters airways

Harmful if inhaled

May cause respiratory irritation. May cause drowsiness or dizziness

May cause an allergic skin reaction

May damage fertility or the unborn child

Suspected of causing cancer

**Appearance** Light brown**Physical state** Liquid**Odor** aromatic**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Do not breathe dust/fume/gas/mist/vapors/spray
 Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Call a POISON CENTER or doctor if you feel unwell
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 Call a POISON CENTER or doctor/physician
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- Toxic to aquatic life

3. Composition/information on Ingredients

| Chemical name | CAS No | Weight-% |
|--|-------------|----------|
| Clodinafop-propargyl | 105512-06-9 | 22.85 |
| 1-Methyl-2-pyrrolidone | 872-50-4 | 7 |
| Nonionic and anionic blend in aromatic hydrocarbon solvent | - | <50 |

If the CAS number is not listed it is withheld as a Trade Secret.

4. First aid measures

FIRST AID MEASURES**General advice**

Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

Eye contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation

If breathing is irregular or stopped, administer artificial respiration. MAY CAUSE ALLERGIC RESPIRATORY REACTION. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. May produce an allergic reaction. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Protection of First-aiders

Use personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed**Most Important Symptoms and Effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Aspiration may cause pulmonary edema and pneumonitis.

Indication of Any Immediate Medical Attention and Special Treatment Needed**Notes to physician**

contains petroleum distillates and/or aromatic solvents. Do NOT induce vomiting.

5. Fire-fighting measures**Suitable extinguishing media**

Carbon dioxide (CO₂).

Use: Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

Specific hazards arising from the chemical

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

Hazardous combustion products No information available.

Explosion data**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**

Use personal protective equipment. Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental Precautions**Environmental precautions**

Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up**Methods for Clean-Up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Keep out of reach of children. Remove and wash contaminated clothing before re-use. Wear personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

incompatible materials No information available.

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 Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Personal protective equipment

Eye/Face Protection Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.

Skin protection Wear protective gloves/clothing.

Respiratory protection Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Light brown
Physical state Liquid
Odor aromatic
color No information available

| <u>Property</u> | <u>VALUES</u> | <u>Remarks/ Method</u> |
|---|--------------------------|------------------------|
| pH | | None known |
| Melting point/freezing point | | None known |
| Boiling Point/Range | | None known |
| Flash Point | 94C / 201 F | None known |
| Evaporation Rate | | None known |
| Flammability (solid, gas) | | None known |
| Specific gravity | 1.0751 @ 20 C | None known |
| Bulk density | | None known |
| Water solubility | | None known |
| Solubility in Other Solvents | No information available | None known |
| Partition coefficient: n-octanol/water | | None known |
| Autoignition temperature | | None known |
| Decomposition temperature | | None known |

Viscosity

None known

9.2 OTHER INFORMATION- NONE**10. Stability and Reactivity****Reactivity**

no data available

Chemical stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerisation does not occur.

Conditions to avoid

Heat, flames and sparks.

incompatible materials

No information available.

Hazardous decomposition products

None under normal use conditions.

11. Toxicological Information**Information on Likely Routes of Exposure****Product information**

Clodinafop 24 EC/240EC:

Acute oral LD 50 (rat) = 5,000 mg/kg

Acute dermal LD50 (rabbit) = Not a skin irritant

Acute inhalation LC50 (rat) = 4.572 mg/L Max achievable breathing zone conc.

Eye irritation (rabbit) = Not an eye irritant

Inhalation

Harmful if inhaled.

Eye contact

Expected to be an irritant based on components.

Skin contact

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion

Based on available data, the classification criteria are not met.

Information on Toxicological Effects**Symptoms**

No information available.

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

No information available.

Mutagenic effects

no data available.

Carcinogenicity

Aromatic hydrocarbon - has been noted by EPA as a possible human carcinogen.

Reproductive effects

Contains a chemical that has been linked to testicular effects in test animals.

STOT - Single Exposure

Respiratory system.

STOT - Repeated Exposure

no data available.

Chronic toxicity

Avoid repeated exposure.

Target organ effects

Central Nervous System (CNS), kidney, Respiratory System.

Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical Measures of Toxicity - Product information

LD50 Oral 5000 mg/kg (rat)
LD50 Dermal > 2000 mg/kg (rat)
LC50 Inhalation > 19 mg/l

12. Ecological Information

ecotoxicity

Clodinafop 24 EC/240EC: Daphnia magna (24 hr / 48 hr) = 0.24 mg/L / 0.32 mg/L Acute oral LD50 Japanese quail = > 2,000 mg/kg
Algae growth inhibition = 0.18 ug/L Acute oral LD50 (honeybees) = 61.6 ug/bee (24 hr) / 48.4 ug/bee (48 hr) Acute toxicity common carp = 2.72 mg/L (96 hr LC50)

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

| Chemical name | Log Pow |
|-------------------------------------|---------|
| Clodinafop-propargyl 105512-06-9 | 3.9 |
| 1-Methyl-2-pyrrolidone 872-50-4 | -0.46 |

Other Adverse Effects

no data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method

Pesticide wastes can be hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging

Refer to product label.

14. Transport Information

DOT

Not regulated when shipped domestically by highway in non-bulk containers as per 49 CFR 171.4

When shipped in bulk, by vessel, or internationally refer to the IMDG shipping description:

TDG

When shipped in Canada domestic highway non-bulk this product can be shipped as Not regulated as per TDG 1.45.1

In bulk, by vessel or internationally - use IMDG description

IATA

Single or inner packagings less than 5L (liquid) or 5kg net (solids) are excepted from the Dangerous Goods regulations (IATA Special provision A197)

| | |
|-----------------------------|--|
| UN/ID no | UN3082 |
| Proper shipping name | Environmentally hazardous substances, liquid, n.o.s (clodinafop-propargyl) |
| Hazard class | 9 |
| Packing group | PG III |
| Description | Marine pollutant |

IMDG Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the Dangerous Goods regulations (IMDG 2.10.2.7)

| | |
|------------------------------|--|
| UN/ID no | UN3082 |
| Proper shipping name | Environmentally hazardous substances, liquid, n.o.s (clodinafop-propargyl) |
| Hazard class | 9 |
| Packing group | PG III |
| Environmental hazards | Marine pollutant |

15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word CAUTION

Keep out of Reach of Children. POISON. Warning- Eye and Skin Irritant.

Contains petroleum distillates. Do not induce vomiting. Vomiting may cause aspiration pneumonia. Toxic to aquatic organisms. and non-target terrestrial plants.

International Inventories

| | |
|----------------|-------------|
| USINV | Not present |
| DSL/NDL | Not present |
| EINECS/ | Not Present |
| ELINCS | |
| ENCS | Not Present |
| China | Not Present |
| KECL | Not Present |
| PICCS | Not Present |
| AICS | Not Present |
| TSCA | Not Present |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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.

CERCLA

Not applicable

CERCLA

RCRA**Pesticide Information**

| Component | FIFRA - Restricted Use | FIFRA - Pesticide Product Other Ingredients | FIFRA - Listing of Pesticide Chemicals | California Pesticides - Restricted Materials |
|---|------------------------|---|--|--|
| Clodinafop-propargyl 105512-06-9 (22.85) | | | X | |
| 1-Methyl-2-pyrrolidone 872-50-4 (7) | | | X | |

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Component | California Prop. 65 |
|--|---------------------|
| 1-Methyl-2-pyrrolidone 872-50-4 (7) | Developmental |

State Right-to-Know

| Chemical name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--------------------------------------|---------------|------------|--------------|----------|--------------|
| 1-Methyl-2-pyrrolidone - 872-50-4 | X | X | X | | |

International regulations**U.S. EPA Label information**

EPA Pesticide registration number PMRA 30743

16. Other Information**NFPA**

HEALTH 1

flammability 1

Instability 0

Physical hazard -

Preparation Date

11-Feb-2020

Revision date

01-Aug-2025

Revision Summary

Update company name Update address Update section 2 Update section 4 Update section 11 Update section 14 Added small package statements for IATA and IMDG

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End of SDS