



Caravel™ 5G Herbicide

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------------------|-----------------------|
| Chemical Name | Mixture |
| Trade Names | Caravel™ 5G Herbicide |
| CAS No. | Mixture |
| EPA Identification Number | EPA Reg. No. 60063-87 |

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

| | |
|----------------------|--|
| Identified Use(s) | Herbicide |
| Uses Advised Against | It is a violation of Federal law to use this product in a manner inconsistent with its labeling. |

Details of the supplier of the safety data sheet

| | |
|------------------------|--|
| Company Identification | Sipcam Agro USA, Inc. 2525 Meridian Parkway Durham, NC 27713 United States of America |
| Telephone | (919) 226-1195 |

Emergency telephone number

| | |
|---------------------|---|
| Emergency Phone No. | CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted) |
|---------------------|---|

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|-----------------------------|--|
| OSHA HCS (29 CFR 1910.1200) | Not classified according to OSHA 29 CFR 1910.1200 criteria. Observe directions on label and instructions for use. See Also Section 15. |
|-----------------------------|--|

Label elements

This is a pesticide product registered with the United States 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 (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

| | |
|----------------------------|--|
| Hazard Symbol(s) | None |
| Signal Word(s) | None |
| Hazard Statement(s) | None |
| Precautionary Statement(s) | Observe directions on label and instructions for use. See Also Section 15. |

Other hazards Harmful to aquatic life.

Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | %W/W | CAS No. | Hazard Statement(s) |
|--|------|------------|---|
| Clomazone | ~ 5 | 81777-89-1 | Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Acute 2; H401 |

Additional Information – None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

| | |
|---|--|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically. |
| Skin Contact | Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse. |
| Eye Contact | 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. |
| Ingestion | Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Rinse mouth. |
| Most important symptoms and effects, both acute and delayed | None |
| Indication of any immediate medical attention and special treatment needed | Call a POISON CENTER or doctor/physician if you feel unwell. |

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media

None known.

Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Observe directions on label and instructions for use. See Also Section 15.

Environmental precautions

Observe directions on label and instructions for use. See Also Section 15.

Methods and material for containment and cleaning up

Observe directions on label and instructions for use. See Also Section 15.

Reference to other sections

Observe directions on label and instructions for use. See Also Section 15.

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Observe directions on label and instructions for use. See Also Section 15.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature. Do not allow material to freeze.
-Incompatible materials Strong oxidising agents.

Specific end use(s) Herbicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|------------|---------|------------|-------------|------------|-------------|-------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| None | ----- | ----- | ----- | ----- | ----- | ----- |

Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure course spray only. Observe directions on label and instructions for use. See Also Section 15.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves. Observe directions on label and instructions for use. See Also Section 15.

Respiratory protection



Observe directions on label and instructions for use. See Also Section 15.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses. Observe directions on label and instructions for use. See Also Section 15.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|-------------------------|
| Appearance | Granular Solid |
| Colour. | Light Grey to Dark Grey |
| Odour | Faint paint-like odor |
| Odour Threshold (ppm) | Not available. |
| pH (Value) | 4.83 |
| Melting Point (°C) / Freezing Point (°C) | Not available. |
| Boiling point/boiling range (°C): | Not available. |
| Flash Point (°C) | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |



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| | |
|---|------------------------------------|
| Explosive Limit Ranges | Not available. |
| Vapour pressure (Pascal) | Not available. |
| Vapour Density (Air=1) | Not available. |
| Density (g/ml) | 0.953 g/mL (pour) 0/975 g/mL (tap) |
| Solubility (Water) | Not available. |
| Solubility (Other) | Not available. |
| Partition Coefficient (n-Octanol/water) | Not available. |
| Auto Ignition Point (°C) | Not available. |
| Decomposition Temperature (°C) | Not available. |
| Kinematic Viscosity (cSt) | Not available. |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |
| Other information | Not available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No hazardous reactions known if used for its intended purpose. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None anticipated. |
| Conditions to avoid | Incompatible materials |
| Incompatible materials | Strong oxidising agents. |
| Hazardous decomposition product(s) | Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires. |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Substances

Not applicable

Mixtures

Acute toxicity

Oral: LD50 >5000 mg/kg-bw (rat)
Dermal: LD50 >2000 mg/kg-bw (rat)
Inhalation: LC50 >3.93 mg/L (rat)

Skin corrosion/irritation

Unlikely to cause skin irritation.

Serious eye damage/irritation

Unlikely to cause eye irritation.

Respiratory or skin sensitization

It is not a skin sensitiser in animal tests.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

STOT - single exposure

Not available.

STOT - repeated exposure

Not available.

Aspiration hazard

Not available.

Substances in preparations / mixtures

Clomazone (CAS # 81777-89-1):

Acute toxicity

Oral: LD50 = 1369 mg/kg (rat)
Dermal: LD50 >2000 mg/kg (rat)
Inhalation: LC50 = 4.23 mg/L (rat) (Dust) (4 hr)

Irritation/Corrosivity

Unlikely to cause eye irritation.

Sensitization

Not to be expected.



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Repeated dose toxicity Not to be expected.

Carcinogenicity Not to be expected.

| NTP | IARC | ACGIH | OSHA |
|-----|------|-------|------|
| No. | No. | No. | No. |

Mutagenicity No evidence of genotoxicity.

Reproductive toxicity Not to be expected.

Additional Information Not available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Clomazone (CAS # 81777-89-1):

Short term EC50 (96 hour): 19 mg/L (*Oncorhynchus mykiss*)
EC50 (48 hour): 5.2 mg/L (*Daphnia magna*)

Long Term Not to be expected.

Persistence and degradability Part of the components are poorly biodegradable.

Bioaccumulative potential Not determined.

Mobility in soil Not determined.

Results of PBT and vPvB assessment Not classified as PBT.

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

| | Land transport (U.S. DOT) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|--|------------------------------|-------------------------|------------------------------|
|--|------------------------------|-------------------------|------------------------------|

UN number
Proper Shipping Name Not classified as dangerous for transport.

Transport hazard class(es)

Packing group

Hazard label(s)

Environmental hazards

Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.



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EPA FIFRA Information for SDS Section 15 (Regulatory Information):

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The hazard information required on the pesticide label is reproduced below:

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Do not mix this product or allow it to come into contact with oxidizing agents. Hazardous chemical reactions may occur.

Personal Protective Equipment (PPE):

Mixers, loaders, applicators and all other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eyewear

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls:

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS. Pilot must use an enclosed cab that meets the definition listed in the WPS for agricultural pesticides (40 CFR 170.305).

Environmental Hazards:

Non Target Organism Advisory:

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions.

The pesticide label also includes other important information, including directions for use.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None | ---- | ----- | ----- |

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| None | ---- | ----- |

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) | TPQ (Pounds) |
|---------------|---------|--------------|-------------|--------------|
| None | ---- | ----- | ----- | |

Proposition 65 (California):

| Chemical Name | CAS No. | Typical %wt. | Hazards |
|---------------|---------|--------------|---------|
| None | ---- | ----- | ----- |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16



Caravel™ 5G Herbicide

Date of preparation: December 1, 2021

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H302: Harmful if swallowed.
- H332: Harmful if inhaled.
- H401: Toxic to aquatic life.

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