

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Requiem® Prime
EPA Registration No. 264-1185-70051
Product Type: Insecticide, Acaricide
Active Ingredient: Terpene Constituents of Extract of *Chenopodium ambrosioides* near *ambrosioides* as Synthetically Manufactured
CAS No.: N/A

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

Identified uses: Plant insect control
Uses advised against: Any use not listed on the label

1.3. Details of the supplier of the safety data sheet

Name: Certis USA LLC
9145 Guilford Road, Suite 175
Address: Columbia, Maryland 21046
USA
Phone Number: +1 (800) 847-5620
Website: <http://www.certisusa.com>

1.4. Emergency telephone number

Emergency number: +1 (800) 255-3924

SECTION 2: Hazards identification

2.1. Classification in accordance with regulation HCS, 29 CFR §1910.1200

Flammable liquids: Category 3
Aspiration hazard: Category 1
Skin sensitization: Category 1
Specific target organ toxicity - single exposure: Category 3

2.2. Labelling in accordance with regulation HCS, 29 CFR §1910.1200



2.3. Signal word: Danger

2.4. Hazard statements

- Flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- May cause respiratory irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.5. Precautionary statements

- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/ eye protection/ face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Use only outdoors or in a well-ventilated area.
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
- Do NOT induce vomiting.
- If skin irritation or rash occurs: Get medical advice/ attention.
- Specific treatment (see supplemental first aid instructions on this label).
- Wash contaminated clothing before reuse.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor/physician if you feel unwell.
- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Store locked up.
- Dispose of contents/container in accordance with local regulation.

2.6. Hazards Not Otherwise Classified (HNOC)

- No physical hazards not otherwise classified.
- No health hazards not otherwise classified.

SECTION 3: Composition/information on ingredients

3.1 Substances

<u>Component</u>	<u>CAS#</u>	<u>% by weight</u>
Terpene Constituents of Extract of <i>Chenopodium ambrosioides</i> near <i>ambrosioides</i> as Synthetically Manufactured	N/A	16.2
Butyl (S)-2-hydroxypropionate	34451-19-9	29.09
Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono(C16 and C18-unsatd. alkyl) ethers, phosphates	91254-26-1	5.39

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When possible, have product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation:	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 physician or poison control center immediately.
Skin Contact:	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye Contact:	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 a physician or poison control center immediately.
Ingestion:	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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

Symptoms	Aspiration may cause pulmonary edema and pneumonitis.
-----------------	---

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

Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.
------------------	---

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media:	High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products:	In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NO _x), Sulphur oxides
---------------------------------------	---

5.3. Advice for firefighters

Protection of Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.
Flash Point:	58.0°C

Auto-ignition Temperature:	No data available.
Lower Explosion Limit:	No data available.
Upper Explosion Limit:	No data available.
Explosivity:	No data available.
Dust Explosion Class:	Not applicable.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Precautions**

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2. Methods and materials for containment and cleaning up**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Contaminated soil may have to be removed and disposed.

Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

6.3. Additional advice

If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

6.4. Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Hygiene measures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingsuffs.

7.3. Specific end use(s)

Only those uses listed on the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components	CAS No.	Control Parameters	Update	Basis
Butyl (S)-2-hydroxypropionate	34451-19-9	5 ppm (TWA)	02/2012	ACGIH
Butyl (S)-2-hydroxypropionate	34451-19-9	25 mg/m ³ /5 ppm (REL)	2010	NIOSH
Butyl (S)-2-hydroxypropionate	34451-19-9	25 mg/m ³ /5 ppm (TWA)	06/2008	TN OEL
Butyl (S)-2-hydroxypropionate	34451-19-9	25 mg/m ³ /5 ppm (TWA PEL)	08/2010	CA OEL

8.2. Exposure controls

Personal Protective Equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand Protection: Chemical resistant nitrile rubber gloves.

Eye/Face Protection: Tightly fitting safety goggles.

Skin and Body Protection: Wear long-sleeved shirt and long pants and shoes plus socks.

General Protective Measures: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Light yellow to light brown clear liquid
Odor:	Characteristic
Odor Threshold:	No data available
pH:	3.0 - 4.0 (1 %) (23°C) (deionized water)
Melting Point / Freezing Point:	No data available
Boiling Point:	No data available
Evaporation Rate:	No data available
Vapor Pressure:	No data available
Vapor Density (Air = 1):	No data available
Density:	~ 0.94 g/cm ³ (20°C)
Water Solubility:	Emulsifiable
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No data available
Flash Point:	58.0° C
Auto-ignition Temperature:	No data available
Minimum Ignition Energy:	Not applicable
Explosivity:	No data available
Lower & Upper Explosion Limits:	No data available
Dust Explosion Class	Not applicable
Decomposition Temperature:	No data available

9.2. Other information

Not available.

SECTION 10: Stability and reactivity

10.1. Thermal decomposition	No data available.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
10.5. Incompatible materials	No data available.
10.6. Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Exposure Routes: Eye contact, skin contact, inhalation

Immediate Effects:

- **Eye:** May cause mild irritation to eyes.
- **Skin:** May cause mild irritation to the skin.
- **Inhalation:** Mists may cause respiratory tract irritation.

Acute Toxicity

Toxicological information on the substance or mixture:

LD₅₀ (oral)	> 5,000 mg/kg, Rat (female)
LD₅₀ (dermal)	> 5,000 mg/kg, Rat (male/female combined)
LC₅₀ (inhalation)	> 5.07 mg/L, Rat (male/female combined); 4 hr respirable aerosol exposure
Skin corrosion / irritation:	Slight irritation, Rabbit
Eye irritation:	Slight irritation, Rabbit
Respiratory or skin sensitization:	Skin: Sensitizing, Mouse (OECD Test Guideline 429—Local lymph node assay (LLNA))

Other information on adverse health effects:

None. Only acute toxicity studies have been performed on the formulated product.

Classification:

ACGIH: None.
NTP: None.
IARC: None.
OSHA: None.

11.2. Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

SECTION 12: Ecological information

12.1. Environmental Precautions

- Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
- Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
- Do not allow to get into surface water, drains and ground water.

12.2. Persistence and degradability Not available

12.3. Bioaccumulative potential Not available

12.4. Mobility in soil Not available

12.5. Other adverse effects Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- | | |
|-------------------------------|---|
| Product | <ul style="list-style-type: none"> Dispose in accordance with all local, state/provincial and federal regulations. Do not contaminate water, food, or feed by disposal. Follow advice on product label and/or leaflet. |
| Contaminated packaging | <ul style="list-style-type: none"> Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. |
| RCRA Information | <ul style="list-style-type: none"> Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply. |

SECTION 14: Transportation information

	<u>US DOT (49 CFR)</u>	<u>IMDG</u>	<u>IATA</u>
UN Number	1993	1993	1993
Class	3	3	3
Packaging group	III	III	III
Marine pollutant	Marine pollutant	Yes	N/A
Environmental hazardous mark	N/A	N/A	Yes
Proper shipping name	Flammable Liquids, NOS (Cymenes)	Flammable Liquid, NOS (Cymenes)	Flammable Liquid, NOS (Cymenes)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation.

SECTION 15: Regulatory information

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

15.1.1. US Federal Regulations

- | | |
|-----------------------|---|
| TSCA Inventory | <ul style="list-style-type: none"> Butyl (S)-2-hydroxypropionate, CAS No. 34451-19-9 Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono(C16 and C18-unsatd. alkyl) ethers, phosphates, CAS No. 91254-26-1 |
|-----------------------|---|

TSCA §12(b) Export Notification (40 CFR §707, Subpart D)	Not applicable
SARA Title III §302 Notification & Information	None
SARA Title III §313 Toxic Chemical Release Reporting	None

15.1.2. US State Regulations

- CA Prop 65**
- This product does not contain any substances known to the State of California to cause cancer.
 - This product does not contain any substances known to the State of California to cause reproductive harm.

State Right-to-Know Ingredients

CA, MN, RI	Butyl (S)-2-hydroxypropionate, CAS No. 34451-19-9
MN, RI	Rape Oil, CAS No. 8002-13-9

15.1.3. US EPA 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 required on the pesticide label:

US EPA Registration No. 264-1185-70051

Signal Word Caution

Hazard Statements

- Avoid contact with skin, eyes and clothing.
- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
- Remove and wash contaminated clothing before re-use.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

15.1.4. Hazard ratings (NFPA & HMIS)

NFPA 704: Health – 2; Flammability – 2; Instability – 0; Others – None

HMIS: Health – 2; Flammability – 2; Physical Hazard – 0; PPE – None

(0 = minimal hazard; 1 = slight hazard; 2 = moderate hazard; 3 = severe hazard; 4 = extreme hazard)

SECTION 16: Other information

Abbreviations and acronyms

49 CFR	Code of Federal Regulations, Title 49
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS No.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NOS	Not otherwise specified
NTP	National Toxicology Program
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety and Health Administration
SARA	Superfund Amendments and Reauthorization Act
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World Health Organisation

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Authoring Information:

Revision date: February 13, 2019
Date of Previous version: None. New Product
SDS Prepared by: Certis USA LLC