# An American Vanguard Company

# SAFETY DATA SHEET

## 1. Identification

**Product identifier PRELUDE® TERMITICIDE** 

Other means of identification

SDS number 364

**Product registration** 

number

5481-550

Prelude 240™ **Synonyms** 

Pyrethroid type termiticide/insecticide Recommended use

**Recommended restrictions** For use by individuals/Firms licensed or registered by the state to apply pesticide products.

No other uses are advised.

Keep out of the Reach of Children!

**EPA Registration number** EPA: 5481-550

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**AMVAC Chemical Corporation** Company name

4695 MacArthur Court **Address** 

Suite 1200

Newport Beach, CA 92660

Telephone **AMVAC Chemical Corp** 949-260-1200

> **AMVAC Chemical Corp** 949-260-6270(FAX)

Website www.amvac.com

E-mail CustServ@amvac.com

**Emergency phone number** Medical 888-681-4261 800-424-9300 **CHEMTREC®** 

(USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

Hazardous to the aquatic environment,

USA)

2. Hazard(s) identification

Not classified. Physical hazards

**Health hazards** Acute toxicity, inhalation Category 4 **Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

Category 1

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Harmful if inhaled. Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Avoid breathing mist/vapor.

> Use personal protective equipment as required. Use only outdoors or in a well ventilated area.

Material name: PRELUDE® TERMITICIDE

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical Response

assistance if you feel unwell.

Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Collect spillage.

Store away from incompatible materials. Storage

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal** 

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information This is a pesticide product registered by 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 hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information,

including directions for use.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Permethrin	3-Phenoxybenzyl 52645-53-1 (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate		25.6
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Undisclosed Ingredients		N/A	74.4

## 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion None known. Mild skin irritation. Mild eye irritation. Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** 

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

Material name: PRELUDE® TERMITICIDE

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	value	
Permethrin (CAS 52645-53-1)	PEL	5 mg/m3	
US. ACGIH Threshold Limit V	'alues		
Components	Туре	Value	
Permethrin (CAS 52645-53-1)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Permethrin (CAS 52645-53-1)	TWA	5 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear colorless to straw colored liquid

**Physical state** Liquid. **Form** Liquid.

Colorless to straw colored Color Odor Paraffinic solvent odor

**Odor threshold** Not available. 6 as a 1% emulsion Ha

-4 °F (-20 °C) estimated Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point > 212 °F (> 100 °C) Setaflash

**Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.1 (solvent)

Flammability limit - upper

(%)

7 (solvent)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

9.75E-01 hPa estimated Vapor pressure

Not available. Vapor density Not available. Relative density

Solubility(ies)

**Emulsifies** Solubility (water)

Solubility (solvents) Soluble in aromatic solvents

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Bulk density** 8 lb/gal

Not explosive. **Explosive properties** 

Flammability class Combustible IIIB estimated

**Oxidizing properties** Not oxidizing. 0.96 20 C Specific gravity

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Strong oxidizing agents. Incompatible materials

Emits hazardous fumes and smoke of unknown composition when heated to decomposition or Hazardous decomposition

burned.

products

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes mild skin irritation. Eye contact Causes mild eye irritation.

Ingestion Expected to be a low ingestion hazard.

Material name: PRELUDE® TERMITICIDE

Symptoms related to the physical, chemical and toxicological characteristics

Mild skin irritation. Mild eye irritation.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

PRELUDE® TERMITICIDE

Acute
Dermal
Liquid

LD50 Rabbit > 2000 mg/kg

Inhalation

Mist

LC50 Rat 2.05 mg/l, 4 hr

**Oral** Liquid

LD50 Rat 3268 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

Skin sensitization Not sensitizing.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Permethrin (CAS 52645-53-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components Species Test Results

Permethrin (CAS 52645-53-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.0006 - 0.0025 mg/l, 48 hours
Fish LC50 Apache trout (Oncorhynchus gilae 0.0013 - 0.0022 mg/l, 96 hours

apache)

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

Methyl oleate 7.45

Mobility in soil No data available.

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Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of container and residues in

accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

Environmentally hazardous substances, liquid, n.o.s. (Permethrin)

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**UN** number UN3082

**UN** proper shipping name

Transport hazard class(es)

**Class** 9 Subsidiary risk Label(s) 9 Ш Packing group **Environmental hazards** 

> Marine pollutant No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, IB3, T4, TP1, TP29 Special provisions

Packaging exceptions 155 Packaging non bulk 203 241 Packaging bulk

IATA

**UN** number UN3082

**UN** proper shipping name Transport hazard class(es) Environmentally hazardous substance, liquid, n.o.s. (Permethrin)

Class 9 Subsidiary risk Ш Packing group

**Environmental hazards** Yes, when transported in bulk over large bodies of water

**ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Allowed with restrictions. Passenger and cargo

aircraft

Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Permethrin), MARINE

**POLLUTANT** 

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant Yes **EmS** F-A. S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

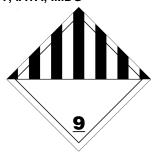
Material name: PRELUDE® TERMITICIDE

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

**DOT: IATA: IMDG** 



Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less. When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This is a pesticide product registered by 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 hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if swallowed, absorbed through skin or inhaled. Causes eye irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or spray mist. 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.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. See the label for more complete information. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store the product near heat or open flame.

#### **Toxic Substances Control Act (TSCA)**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Permethrin (CAS 52645-53-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

**Classified hazard** 

Acute toxicity (any route of exposure)

categories

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Permethrin
 52645-53-1
 25.6

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

**California Proposition 65** 

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

**International Inventories** 

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

country(s).

#### 16. Other information, including date of preparation or last revision

Issue date May-18-2015
Revision date Jul-16-2020

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 4.1

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

Material name: PRELUDE® TERMITICIDE

SDS US

Nο

#### Disclaimer

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NFPA is a trademark of the National Fire Protection Association. Inc.

Product and Company Identification: Alternate Trade Names

Identification: Recommended restrictions Regulatory information: US federal regulations

Other information, including date of preparation or last revision: Disclaimer

**Revision information**