

# SAFETY DATA SHEET

1. Identification

**Product identifier** AMBUSH® 25W Insecticide Wettable Powder

Other means of identification

SDS number 297

Recommended use Pyrethroid type insecticide/miticide.

This is a Restricted Use Pesticide and is for use by licensed applicators only. Keep out of the Recommended restrictions

Reach of Children!

5481-502; 5481-503 **Product registration number** 

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**AMVAC Chemical Corporation** Company name 4100 E Washington Blvd **Address** 

Los Angeles, CA 90023 USA

**AMVAC Chemical Corp Telephone** 323-264-3910

> **AMVAC Chemical Corp** 323-268-1028 (FAX)

Website www.Amvac-Chemical.com CustServ@Amvac-Chemical.com E-mail

Medical **Emergency phone number** 888-681-4261

CHEMTREC® (USA+Canada) 800-424-9300 Product Use 888-462-6822

CHEMTREC® (Outside USA) +1-703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation Category 2B Sensitization, skin Category 1 Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment, Category 1

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Harmful if swallowed. May cause an allergic skin reaction. Causes eye irritation. Harmful if

inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Avoid breathing dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this Prevention

> product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. Wear

eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If Response

inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage. Storage Disposal

Hazard(s) not otherwise classified (HNOC)

Store away from incompatible materials.

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

None known.

Supplemental information

United States Environmental Protection Agency Labeling Requirements:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

WARNING: May cause eye irritation. Harmful if swallowed. DO NOT get in eyes, on skin, or on clothing.

**ENVIRONMENTAL HAZARDS** 

This pesticide is extremely toxic to fish and invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when weather conditions favor drift from the treated area. Do not contaminate water when disposing of equipment washwaters.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on treated area. Do not apply when bees are visiting ornamentals, weeds, or other vegetation blooming in the treatment area.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Permethrin		52645-53-1	25
Amorphous silica		7631-86-9	<35

# 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed
Indication of immediate

medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Powder. Foam. Carbon dioxide (CO2).

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

media
Specific hazards arising from

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Use water spray to cool unopened containers.

equipment/instructions Specific methods

the chemical

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

**General fire hazards**No unusual fire or explosion hazards noted.

Material name: AMBUSH® 25W Insecticide Wettable Powder 885 Version #: 01 Issue date: 04-27-2015

### 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. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: If contaminated, sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). 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.

**Environmental precautions** 

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

# 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Do not get this material in contact with eyes. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Store in original 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

Components	Туре	Value	
Permethrin (CAS 52645-53-1)	PEL	5 mg/m3	
US. OSHA Table Z-3 (29 CFR 191	10.1000)		
Components	Туре	Value	
Amorphous silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
<b>US. ACGIH Threshold Limit Valu</b>	es		
Components	Туре	Value	
Permethrin (CAS 52645-53-1)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	
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. Provide eyewash station.

# Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear appropriate chemical resistant clothing (see label).

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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. Contaminated work clothing

should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** Fine ground off white powder

Solid. Physical state **Form** Solid. Color off white Odorless. Odor Odor threshold Not available

7.5 (5% dispersion) pН 95 °F (35 °C) estimated Melting point/freezing point 4046 °F (2230 °C) estimated Initial boiling point and boiling

range

Flash point 180 °F (82 °C) estimated

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

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

Vapor pressure 4.50E-02 mPa (a.i.) Heavier than air Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Dispersible

Partition coefficient (n-octanol/water)

The partition coefficeint for Permethrin is 6.1 (log P)

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

Other information

35 lb/ft3 **Bulk density** 

**Density** 1.44 g/cm3 estimated Combustible IIIA estimated Flammability class

Percent volatile Not applicable

# 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**Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

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

burned.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Harmful if inhaled.

**Skin contact** May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause an allergic skin reaction.

### Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed. May cause an allergic skin reaction. Causes eye

irritation.

**Product Species Test Results** AMBUSH® 25W acute dermal LD50 rabbit > 2000 mg/kg inhalation LC50 rat 2.3 mg/l/4h oral LD50 rat 806 mg/kg

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

#### **Irritation Corrosion - Skin**

, Toxic Category IV Species: rabbit Organ: skin Severity: Mild

Serious eye damage/eye Causes serious eye irritation.

irritation

### **Irritation Corrosion - Eye**

, Toxic Category III Species: rabbit Organ: eye Severity: Moderate

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

Skin sensitization

, Not considered a sensitizer

Species: guinea pig

Organ: skin

Germ cell mutagenicity

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

mutagenic or genotoxic.

#### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9)

3 Not classifiable as to carcinogenicity to humans.

Permethrin (CAS 52645-53-1)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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 5264	<del>1</del> 5-53-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0006 - 0.0025 mg/l, 48 hours
Fish	LC50	Apache trout (Oncorhynchus gilae apache)	0.0013 - 0.0022 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Mobility in soil No data available.

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

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

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

Hazardous waste code

Dispose in accordance with all applicable regulations.

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

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. 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).

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

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

disposal.

# 14. Transport information

DOT

**UN** number UN3077

**UN proper shipping name** 

Environmentally hazardous substances, solid, n.o.s. (Permethrin RQ = 4 LBS)

Transport hazard class(es)

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

Marine pollutant

Yes

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

8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33 Special provisions

Packaging exceptions 155 Packaging non bulk 213 Packaging bulk 240

**IATA** 

**UN number** 

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

**Class** 9 Subsidiary risk 9 Label(s) Packing group Ш **Environmental hazards** No.

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

Other information

Passenger and cargo

aircraft

Allowed.

Not applicable.

Allowed. Cargo aircraft only

**IMDG** 

**UN** number UN3077

**UN** proper shipping name Environmentally hazardous substances, solid, n.o.s. (Permethrin)

Transport hazard class(es)

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

> Yes Marine pollutant

**EmS** Not available.

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

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

the IBC Code

DOT; IATA; IMDG



# Marine pollutant



**General information** DOT Regulated Severe Marine Pollutant. IMDG Regulated Severe Marine Pollutant.

# 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 as a RESTRICTED USE PESTICIDE. 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.

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 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Permethrin	52645-53-1	25

#### 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

Not regulated.

(SDWA)

### **US state regulations**

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### **US. Massachusetts RTK - Substance List**

Amorphous silica (CAS 7631-86-9)

Permethrin (CAS 52645-53-1)

# US. New Jersey Worker and Community Right-to-Know Act

Amorphous silica (CAS 7631-86-9) Permethrin (CAS 52645-53-1)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Amorphous silica (CAS 7631-86-9) Permethrin (CAS 52645-53-1)

#### **US. Rhode Island RTK**

Permethrin (CAS 52645-53-1)

# **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

#### Country(s) or region Inventory name

On inventory (yes/no)\*

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

No

\*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

04-27-2015 Issue date

Material name: AMBUSH® 25W Insecticide Wettable Powder

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### 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 # 01

Further information Not available.

HMIS® ratings Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**Disclaimer** This information is provided for the limited guidance to the user. While AMVAC believes that the

information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability

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trademark of the American Conference of Governmental Industrial Hygienists.

Revision Information Product and Company Identification: Product Registration Numbers

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Property Data Transport Information: Proper Shipping Name/Packing Group

HazReg Data: International Inventories

GHS: Classification

Material name: AMBUSH® 25W Insecticide Wettable Powder

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