# SAFETY DATA SHEET



## 1. Identification

Product identifier WISDOM® TC Flowable

Other means of identification

SDS number 317

Product registration 5481-520

number

Recommended use

Pyrethroid type insecticide/miticide.

**Recommended restrictions** No other uses are advised.

Keep out of the Reach of Children!

**EPA Registration number** EPA: 5481-520

Manufacturer/Importer/Supplier/Distributor information

Company Name AMVAC Chemical Corporation

Address 4695 MacArthur Court

**Suite 1200** 

Newport Beach, CA 92660

**United States** 

**Telephone** 

 AMVAC Chemical Corp
 949-260-1200

 AMVAC Chemical Corp
 949-260-6270(FAX)

 Product Use
 888-462-6822

 Website
 www.amvac.com

E-mail CustServ@amvac.com

**Emergency phone number** 

 Medical
 888-681-4261

 CHEMTREC®
 800-424-9300

(USA+Canada)

CHEMTREC® (Outside

USA)

+1-703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsAcute toxicity, oralCategory 4Environmental hazardsHazardous to the aquatic environment, acuteCategory 1

hazard

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.
Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Do not eat, drink or smoke when using this product.

Avoid release to the environment. Wash thoroughly after handling.

**Response** If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth. Collect spillage.

Storage Not assigned.

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

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	%	
Bifenthrin	Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl] -2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	82657-04-3	7.9	
Additional components				
Chemical name	Common name and synonyms	CAS number	%	
Undisclosed Ingredients		N/A	92.1	

### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If person is not

breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if

possible. Call a poison center or doctor/physician for further treatment advice.

**Skin contact** Remove and isolate contaminated clothing and shoes. Wash off immediately with plenty of water

for at least 15 minutes. Call a physician or poison control center for treatment advice.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present, after the first 5 minutes, then continue rinsing eyes. Call a physician or poison control

center for treatment advice.

**Ingestion** Call a physician or poison control center immediately. Have person sip a glass of water if able to

Dermatitis. Rash. Direct contact with eyes may cause temporary irritation.

swallow. Do not induce vomiting without advice from poison control center. Do not give anything by

mouth to an unconscious person.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Bifenthrin is moderately toxic if swallowed and has a low dermal toxicity. Gastric lavage using an endotracheal tube may be preferred to vomiting. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

(show the label where possible). 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

media

Water spray. Water fog. Foam. Dry chemical 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.

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

Special protective equipment and precautions for firefighters

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

Fire fighting

Specific methods

equipment/instructions

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

General fire hazards No unusual fire or explosion hazards noted.

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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. Do not breathe mist or vapor. 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.

Methods and materials for containment and cleaning up This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. 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 reuse.

**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

Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Avoid release to the environment. Wash hands thoroughly after handling.

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

None known.

**Biological limit values** 

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 If contact is likely, safety glasses with side shields are recommended.

Skin protection

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

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

supplier.

Other Wear appropriate chemical resistant clothing (see label).

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

Not available. Thermal hazards

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** 

Physical state Liquid. **Form** Liquid.

Opaque beige Color

Bland. Odor

None established. **Odor threshold** 

6.7

28.4 °F (-2 °C) Melting point/freezing point Initial boiling point and boiling 212 °F (100 °C)

range

>212 °F (>100 °C) Flash point **Evaporation rate** Not available

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Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

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

Not available. Vapor pressure Vapor density Heavier than air. Relative density 1.024 @ 20 °C

Solubility(ies)

Solubility (water) Dispersible

Solubility (solvents) The active ingredient in this product is soluble in aromatic solvents.

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

Other information The data presented in this section are typical values and should not be construed as a

specification.

8.53 lbs/gal Density Flammability class Combustible IIIB

# 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

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED

BREATHING APPARATUS when these conditions are present.

# 11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation May cause sensitization by skin contact. Skin contact

Direct contact with eyes may cause temporary irritation. Eye contact

Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Contact with Bifenthrin may occasionally produce skin sensitization such as rashes, numbing,

burning or tingling.

## Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

Product	Species	Test Results
WISDOM® TC Flowable		
<u>acute</u>		

LD50

Rabbit > 5050 mg/kg

inhalation

dermal

LC50 Rat > 2.65 mg/L, 4 hr

oral

LD50 Rat 310 mg/kg

Skin corrosion/irritation Non-irritating (rabbit).

**Irritation Corrosion - Skin** 

WISDOM® TC Flowable Result: Non irritating

Species: rabbit Organ: skin

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Serious eye damage/eye

eleye Direct contact with eyes may cause temporary irritation.

irritation

Irritation Corrosion - Eye

WISDOM® TC Flowable Result: irritating

Species: rabbit Organ: eye Severity: Minimally

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer. **Skin sensitization** Not a skin sensitizer.

Skin sensitization

WISDOM® TC Flowable LLNA

Result: not a sensitizer Species: Mouse Organ: skin

Germ cell mutagenicity

Not classified.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. The doses that produced this oncogenic effect in laboratory animals greatly exceeds human exposure levels for the recommended use of Bifenthrin products. Consequently, the oncogenic potential in humans is extremely weak or non-existent.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

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

No specific target organ toxicity is expected after repeated exposure.

**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

Bifenthrin (CAS 82657-04-3)

Aquatic Acute

Crustacea LC50 Water flea (Ceriodaphnia dubia) 0 - 0.0002 mg/l, 48 hours

No data is available on the degradability of this product.

Water flea (Daphnia magna) 0.0001 - 0.0009 mg/l, 48 hours

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Bifenthrin < 6

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** 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

Dispose of in accordance with all applicable 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

Not regulated as dangerous goods.

**IATA** 

**UN** number

Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin) **UN** proper shipping name

Transport hazard class(es)

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

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

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only Allowed.

Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN3082

**UN** proper shipping name Transport hazard class(es) Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin), MARINE POLLUTANT

Class 9 Subsidiary hazard Label(s) 9 Ш Packing group

**Environmental hazards** 

Marine pollutant Yes

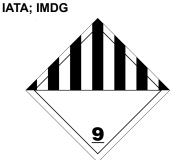
**EmS** Not assigned.

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

Not established.

the IBC Code



## 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. 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 chemical 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. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic 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. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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 apply water-based dilutions of this product to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of the possible shock hazard.

## **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)** 

Not 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 categories

Acute toxicity (any route of exposure)

SARA 313 (TRI reporting)

Chemical name CAS number % by wt.

Bifenthrin 82657-04-3 7.9

### 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 No.

Not regulated.

(SDWA)

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### US state regulations

### **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. For more information go to www.P65Warnings.ca.gov.

### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

\*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 dateSep-30-2019Revision dateNov-07-2023

Version # 2.2 HMIS® ratings Health: 2

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1 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 or fitness for a particular purpose or otherwise is made hereunder with respect to the information

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

**Revision information** First-aid measures: General information

Fire-fighting measures: Suitable extinguishing media

Toxicological information: Carcinogenicity

Disposal considerations: Waste from residues / unused products

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

Material name: WISDOM® TC Flowable

SDS US