

# SAFETY DATA SHEET

#### 1. Identification

Product identifier WISDOM TC Flowable

Other means of identification

SDS number 317

Synonym(s) WISDOM® Flowable

**Recommended use** Pyrethroid type insecticide/miticide. **Recommended restrictions** Keep out of the Reach of Children!

**EPA Registration number** EPA: 5481-519; 5481-520 **Manufacturer/Importer/Supplier/Distributor information** 

Manufacturer

Company name AMVAC Chemical Corporation
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**Emergency phone number** Medical 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 Sensitization, skin Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** May cause an allergic skin reaction.

**Precautionary statement** 

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

release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

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

inhaled: Remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

**Hazard(s) not otherwise** Very toxic to aquatic life.

**classified (HNOC)** Very toxic to aquatic life with long lasting effects.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Material name: WISDOM TC Flowable SDS US

Chemical name	Common name and synonyms	CAS number	%
Bifenthrin		82657-04-3	7.9
Additional components	Common name and synonyms	CAS number	%
Chemical name			
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. Get medical

attention, if needed. Oxygen or artificial respiration if needed.

Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Skin contact

Use soap if available. Get medical attention if irritation develops and persists. In case of eczema or

other skin disorders: Seek medical attention and take along these instructions.

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

Ingestion Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not

induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. If

May cause an allergic skin reaction, Dermatitis, Rash, Direct contact with eyes may cause

ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed

temporary irritation.

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

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

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

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

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

No unusual fire or explosion hazards noted.

## 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. For personal protection, see section 8 of the SDS.

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 re-use. For waste disposal, see section 13 of the SDS.

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

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## 7. Handling and storage

Precautions for safe handling Do not handle until all safety precautions have been read and understood. Do not breathe mist or

vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release

to the environment.

Conditions for safe storage, including any incompatibilities Store locked up. 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

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	
Precipitated silica (CAS 112926-00-8)	TWA	0.8 mg/m3	
,		20 mppcf	

US. NIOSH: Pocket Guide to Chemical Hazards

Components Type Value Precipitated silica (CAS **TWA** 6 mg/m3

112926-00-8)

US. Workplace Environmental Exposure Level (WEEL) Guides

**Form** Components Value Type **TWA** Propylene glycol (CAS 10 mg/m3 Aerosol. 57-55-6)

**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 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

supplier.

Other Wear appropriate chemical resistant clothing (see label).

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

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

Opaque beige liquid **Appearance** 

Physical state Liquid. **Form** Liquid. Opaque beige Color

Bland Odor

**Odor threshold** None established Not available. Melting point/freezing point 28.4 °F (-2 °C) 212 °F (100 °C) Initial boiling point and boiling

range

304 °F (151 °C) estimated Flash point

**Evaporation rate** Not available Flammability (solid, gas) Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 1.81E-07 mm Hg @ 25°C (a.i.)

Vapor density Heavier than air

Relative density 1.024 g/cm3 @ 20°C

Solubility(ies)

Solubility (water) Dispersible

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density 8.53 lb/gal

Flammability class Combustible IIIB estimated

Percent volatile Not applicable pH in aqueous solution 6.7 @ 25°C Specific gravity 1.024 @ 20°C

# 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

No hazardous decomposition products are known. 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

**Inhalation** May be harmful if inhaled.

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

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Contact with Bifenthrin may occasionally produce skin

sensitization such as rashes, numbing, burning or tingling.

Information on toxicological effects

**Acute toxicity** May be harmful if swallowed. May be harmful if inhaled. May cause an allergic skin reaction.

Product Species Test Results

WISDOM TC Flowable

<u>acute</u> dermal

LD50 rabbit > 2000 mg/kg Tox Cat IV

\* Estimates for product may be based on additional component data not shown.

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

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Serious eve damage/eve

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

May cause an allergic skin reaction. Skin sensitization

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

mutagenic or genotoxic.

None of the components present in this material at concentrations equal to or greater than 0.1% Carcinogenicity

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. EPA has classified Bifenthrin as a class C carcinogen, a possible human carcinogen. Respirable crystalline silica is listed as being carcinogenic by both IARC and NTP. It is present at less than 0.01% in the

product.

IARC Monographs. Overall Evaluation of Carcinogenicity

Precipitated silica (CAS 112926-00-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

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** Causes damage to organs through prolonged or repeated exposure. 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				
Crustacea	LC50	Water flea (Ceriodaphnia dubia)	0 - 0.0002 mg/l, 48 hours	
		Water flea (Daphnia magna)	0.0001 - 0.0009 mg/l, 48 hours	

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

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

WISDOM TC Flowable < 6, Bifenthrin

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 local regulations. Empty containers or liners may retain some

Disposal instructions).

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product residues. This material and its container must be disposed of in a safe manner (see:

### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

DOT

UN3082 **UN number** 

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

Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) 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 Packaging bulk 241

**IATA** 

**UN number** UN3082

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

Transport hazard class(es)

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

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

Not established.

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

Other information

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only

**IMDG** 

**UN number** UN3082

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

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

**Environmental hazards** 

Marine pollutant Yes

Not available. **EmS** 

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



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## 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 (110 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 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

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

#### **ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to fish, aquatic invertebrates, birds and mammals. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of lakes, ponds, and streams. Do not contaminate water when disposing of equipment washwater or rinsate. 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.

### 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.

### 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 1910.1001-1050)

Not listed.

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

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes 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 nameCAS number% by wt.Bifenthrin82657-04-37.9

#### 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

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

Precipitated silica (CAS 112926-00-8)

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

Bifenthrin (CAS 82657-04-3)

Precipitated silica (CAS 112926-00-8) Propylene glycol (CAS 57-55-6)

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

Propylene glycol (CAS 57-55-6)

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

Bifenthrin (CAS 82657-04-3)

### **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)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>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
 04-21-2015

 Revision date
 03-04-2016

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 # 03

Further information Not available.

Material name: WISDOM TC Flowable

HMIS® ratings Health: 3\*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 0 Instability: 0

**Disclaimer** 

AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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 or the product to which the information relates.

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**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

Material name: WISDOM TC Flowable

SDS US

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