# SAFETY DATA SHEET TALSTAR® PROFESSIONAL INSECTICIDE

SDS #: 1349-A

**Revision date: 2019-03-19** 

Format: NA Version 1.09



# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** TALSTAR® PROFESSIONAL INSECTICIDE

Other means of identification

Product Code(s) 1349-A

**Synonyms** BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl

(1R,3R)-rel-3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethylcyclopropanecarboxylat

e (CAS name); 2-methyl-3-phenylbenzyl

(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate

(IUPAC name)

Active Ingredient(s) Bifenthrin

**Chemical Family** Pyrethroid Pesticide

Recommended use of the chemical and restrictions on use

Insecticide Recommended Use:

Restrictions on Use: Use as recommended by the label.

Supplier Address

**FMC** Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

1 202 / 483-7616 (CHEMTREC - Alternate International)

Medical Emergencies:

1800 / 331-3148 (U.S.A. & Canada)

1 651 / 632-6793 (All Other Countries - Collect)

# 2. HAZARDS IDENTIFICATION

## Classification

# **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

### GHS Label elements, including precautionary statements

### **EMERGENCY OVERVIEW**

#### Danger

### **Hazard Statements**

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure



### **Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

# **Precautionary Statements - Response**

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

#### **Precautionary Statements - Storage**

P405 - Store locked up

# **Precautionary Statements - Disposal**

P501 - Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

### Other Information

Very toxic to aquatic life with long lasting effects.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical Family** Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Bifenthrin	82657-04-3	7.9
Propylene glycol	57-55-6	= or <20

Synonyms are provided in Section 1.

4	<b>FIRST</b>	MΕΔ	SHE	PES

**Eye Contact** Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

**Skin Contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for further treatment advice.

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 poison control center or doctor for

further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a

glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison

control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed Central nervous system effects.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

## 5. FIRE-FIGHTING MEASURES

Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray. Suitable Extinguishing Media

Avoid heavy hose streams. Unsuitable extinguishing media

Specific Hazards Arising from the

Chemical

**Explosion data** 

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge

None known

No information available. No information available.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face

protection. For personal protection see section 8.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

**Environmental Precautions** Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,

streams, ponds, and sewer drains.

**Methods for Containment** Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

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**Methods for cleaning up**Clean and neutralize spill area, tools and equipment by washing with water and soap.

Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior

to recycling or disposal. Dispose of waste as indicated in Section 13.

# 7. HANDLING AND STORAGE

**Handling** Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces

and sources of ignition. Keep out of reach of children and animals. Store in original

container.

Incompatible products None known

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propylene glycol	-	-	TWA: 10 mg/m <sup>3</sup>	-
(57-55-6)			aerosol only	
			TWA: 50 ppm	
			aerosol and vapor	
			TWA: 155 mg/m <sup>3</sup>	
			aerosol and vapor	

# **Appropriate engineering controls**

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

## Individual protection measures, such as personal protective equipment

Eye/Face Protection This product does not cause significant eye irriation or eye toxicity requiring special

protection. Where there is significant potential for eye contact, wear chemical goggles and

have eye flushing equipment available.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection Protective gloves

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash

skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing

separately from regular household laundry.

**General information** If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** Beige Liquid **Physical State** Liquid Color Beige Odor Mild

**Odor threshold** No information available

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Not applicable Melting point/freezing point

**Boiling Point/Range** No information available

Does not flash Flash point

**Evaporation Rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available No information available Lower flammability limit: Vapor pressure No information available Vapor density No information available

Relative density 8.53 lb/gal 1.024 @ 20°C Specific gravity Dispersible in water Water solubility Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available No information available Viscosity, kinematic No information available Viscosity, dynamic **Explosive properties** No information available No information available **Oxidizing properties** Molecular weight No information available

**Bulk density** 8.53 lb/gal

# 10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions

**Chemical Stability** Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization does not occur. **Hazardous polymerization** 

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous Decomposition Products Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Chlorine, fluorine.

### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

632 mg/kg (rat) LD50 Oral LD50 Dermal > 2000 mg/kg (rabbit) LC50 Inhalation 1.60 mg/L 4 hr (rat)

Serious eye damage/eye irritation Practically non-irritating.

Skin corrosion/irritation Non-irritating. Sensitization Non-sensitizing.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bifenthrin (82657-04-3)	55 mg/kg ( rat )	> 2000 mg/kg ( rat )	0.8 mg/L ( female, rat ) 4 h
Propylene glycol (57-55-6)	20000 mg/kg (Rat)	20800 mg/kg(Rabbit)	

#### Information on toxicological effects

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Symptoms Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including

convulsions, tremors and bloody nasal discharge.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early

exposure in animal studies, but tremors disappeared with continued exposure.

**Mutagenicity** Bifenthrin: Not genotoxic in laboratory studies.

Carcinogenicity Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder

tumors (lesion) in male mice.

Neurological effects Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive

salivation) following acute or subchronic exposure. Tremors disappeared with continued

exposure.

**Reproductive toxicity** Bifenthrin: No toxicity to reproduction in animal studies.

**Developmental toxicity**Bifenthrin: Not teratogenic in animal studies.

**STOT - single exposure** Causes damage to organs. See listed target organs below.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. See listed target

organs below.

Target organ effectsBifenthrin: Central Nervous System.

Neurological effects Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive

salivation) following acute or subchronic exposure. Tremors disappeared with continued

exposure.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Bifenthrin (82657-04-3)				
Active Ingredient(s)	Duration	Species	Value	Units
Bifenthrin	96 h LC50	Fish	0.1	μg/L
	72 h EC50	Algae	0.822	mg/L
	48 h EC50	Crustacea	0.11	μg/L
	21 d NOEC	Fish	0.012	μg/L
	21 d NOEC	Crustacea	0.0013	µg/L

**Persistence and degradability** Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Bifenthrin: The substance has a potential for bioconcentration.

**Mobility** Bifenthrin: Immobile. Not expected to reach groundwater.

# 13. DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these

wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging**Containers must be disposed of in accordance with local, state and federal regulations.

Refer to the product label for container disposal instructions.

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### 14. TRANSPORT INFORMATION

DOT This material is not a hazardous material as defined by U.S. Department of Transportation

at 49 CFR Parts 100 through 185.

TDG\_ Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no UN3082

Environmentally hazardous substance, liquid, n.o.s. **Proper Shipping Name** 

**Hazard class** Ш **Packing Group** 

**Marine Pollutant** Bifenthrin.

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III Description

### ICAO/IATA

UN/ID no UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard class** Ш **Packing Group** 

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III Description

Limited quantity 30 kg G

IMDG/IMO

UN/ID no

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard class **Packing Group** Ш F-A. S-F EmS No. **Marine Pollutant** Bifenthrin

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III

# 15. REGULATORY INFORMATION

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Bifenthrin - 82657-04-3	82657-04-3	7.9	1.0

### SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic health hazard Yes Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** No

## **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb			Х

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This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium Hydroxide	1000 lb	
1310-73-2	454 kg	

### 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 as required on the pesticide label:

#### **CAUTION**

Harmful if swallowed, inhaled or absorbed through skin.

This pesticide is extremely toxic to fish and aquatic invertebrates.

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Bifenthrin	X		
82657-04-3			
Propylene glycol	X		X
57-55-6			,

# **International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3				Х	Х	X		
Propylene glycol 57-55-6	Х	Х	Х	Х	Х	Х	Х	Х

# Mexico - Grade Serious risk, Grade 3

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Bifenthrin	100	100 kg/yr
	2500 kg/yr	

# **WHMIS Statement**

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**WHMIS Hazard Class** 

D2A - Very toxic materials

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# **16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 2	Physical hazard 0	Personal Protection X

<sup>\*</sup>Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision date:** 2019-03-19

Reason for revision: SDS sections updated

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**End of Safety Data Sheet**