## SAFETY DATA SHEET TALSTAR® INSECTICIDE

SDS #: 6691-A Revision date: 2016-05-26 Format: NA Version 1.03



# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier	
Product Name	TALSTAR® INSECTICIDE
Other means of identification	
Product Code(s)	6691-A
Synonyms	BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)
Active Ingredient(s)	Bifenthrin, Prallethrin
Chemical Family	Pyrethroid Pesticide
Recommended use of the chemical	and restrictions on use
Recommended Use:	Insecticide
Restrictions on Use:	Use as recommended by the label
Manufacturer Address	FMC Corporation 2929 Walnut Street Philadelphia, PA 19104 (215) 299-6000 (General Information) msdsinfo@fmc.com (E-Mail General Information) For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.) 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries) Medical Emergencies: 1 800 / 331-3148 (PROSAR - U.S.A. & Canada) 1 651 / 632-6793 (PROSAR - 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)

Aerosols

Category 3

GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

Warning

### Physical Hazards

H229 - Pressurized container: May burst if heated

# 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**

**Chemical Family** 

Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Bifenthrin	82657-04-3	0.05
Prallethrin	23031-36-9	0.03
Dimethyl ether	115-10-6	10-15
Petroleum distillates, hydrotreated light	64742-47-8	1-5

Synonyms are provided in Section 1.

4. FIRST AID MEASURES			
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 poiso 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 (within the U.S. and Canada) 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	None known.		
Indication of immediate medical attention and special treatment needed, if necessary	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		
Suitable Extinguishing Media	Use CO <sub>2</sub> , dry chemical, or foam.		
Specific Hazards Arising from the Chemical	Closed containers may rupture violently under fire conditions. Non-flammable aerosol.		
Hazardous Combustion Products	Toxic fumes may be produced.		

Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Not sensitive.		
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. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment.		
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.		
Environmental Precautions	See Section 12 for additional Ecological Information.		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant.		
	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. Keep/store only in original container.		
Incompatible products	None known		

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Dimethyl ether	TWA: 1000 ppm	-	-	-
(115-10-6)				
Petroleum distillates,	TWA: 200 mg/m <sup>3</sup>	-	-	-
hydrotreated light	Skin			
(64742-47-8)				

# 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	If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.
Skin and Body Protection	Wear long-sleeved shirt, long pants, socks, and shoes.
Hand Protection	Protective gloves

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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

## Information on basic physical and chemical properties

Appearance	Aerosolized liquid
Physical State	Aerosol
Color	Clear
Odor	Odorless
Odor threshold	No information available
pH	6.0-8.0
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	0.975 g/mL
Specific gravity	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available

# **10. STABILITY AND REACTIVITY**

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous Decomposition Products	May emit toxic fumes under fire conditions.

# **11. TOXICOLOGICAL INFORMATION**

## Product Information

> 5000 mg/kg (rat)

LD50 Dermal LC50 Inhalation	<ul><li>&gt; 5000 mg/kg (rabbit)</li><li>&gt; 5.12 mg/L 4 hr (rat)</li></ul>
Serious eye damage/eye irritation	Mild Irritant.
Skin corrosion/irritation	Mild Irritant.
Sensitization	Non-sensitizing.

Information on toxicological effects

Symptoms		Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.				
Delayed and immediate ef	fects as well as chronic	c 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: No	ot genotoxic in laboratory s	studies.	•		
Carcinogenicity		eak treatment-related resp n) in male mice.	oonse for liver adenocarcir	nomas and benign bladder		
Neurological effects	Bifenthrin: Ca	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued				
Reproductive toxicity	Bifenthrin: No	Bifenthrin: No toxicity to reproduction in animal studies. Contains ingredients that are suspected reproductive hazards.				
Developmental toxicity	Bifenthrin: No	ot teratogenic in animal stu	idies.			
STOT - single exposure		Not classified.				
STOT - repeated exposure	Not classified	Not classified.				
Target organ effects		Bifenthrin: Central Nervous System.				
Neurological effects	Bifenthrin: Ca	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive				
-		lowing acute or subchronic				
	exposure.	-				
Aspiration hazard	No information	on available.				
Chemical name	ACGIH	IARC	NTP	OSHA		
Prallethrin		Group 2A				

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

23031-36-9

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

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	disposal authorities for guidance.
Contaminated Packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.
	14. TRANSPORT INFORMATION
DOT	USDOT is requiring that products formerly classified as "Consumer Commodity, ORM-D" transition to "Limited Quantity" by 12/31/2020. During the transition period the 49CFR carton shipping marks may be Consumer Commodity (old) or Limited Quantity Diamond (new). Please prepare shipping documents to match the carton mark.
Proper Shipping Name Hazard class	Consumer commodity ORM-D
TDG UN/ID no Proper Shipping Name Hazard class Marine Pollutant Description	Ship as Limited Quantity. Carton marks include Limited Quantity and Class 9 Diamond. UN1950 Aerosols 2.2 Bifenthrin. UN1950, Aerosols, 2.2, Marine Pollutant (Bifenthrin)
ICAO/IATA UN/ID no Proper Shipping Name Hazard class Description	Carton Marks: Limited quantity air, orientation arrows, Class 9 Diamond, Consumer Commodity, ID8000 ID8000 Consumer commodity 9 ID8000, Consumer Commodity, 9
IMDG/IMO UN/ID no Proper Shipping Name Hazard class EmS No. Marine Pollutant Description	Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows. UN1950 Aerosols 2 F-D, S-U Bifenthrin UN1950, Aerosols, 2.2, Marine Pollutant (Bifenthrin)

# **15. REGULATORY INFORMATION**

# U.S. Federal Regulations

#### <u>SARA 313</u>

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	0.05	1.0

# SARA 311/312 Hazard Categories

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

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### 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

This product is extremely toxic to fish and aquatic invertebrates.

## US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Bifenthrin	Х		
82657-04-3			
Dimethyl ether	Х	X	Х
115-10-6			

#### International Inventories

Chemical name	TSCA (United States)	· · /	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3				Х	Х	Х		
Prallethrin 23031-36-9			Х	Х	Х	Х		
Dimethyl ether 115-10-6	Х	Х	Х	Х	Х	Х	Х	Х
Petroleum distillates, hydrotreated light 64742-47-8	X	Х	Х		Х	Х	Х	Х

#### Mexico - Grade

Slight risk, Grade 1

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	
Prallethrin	100	100 kg/yr
	2500 kg/yr	



# 16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1	Flammability 1	Physical hazard 0	Personal Protection X

Revision date:	2016-05-26
Reason for revision:	Format Change

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