# SAFETY DATA SHEET TALSTAR® PROFESSIONAL INSECTICIDE

**SDS #**: 1349-A

**Revision date: 2015-04-10** 

Format: NA Version 1.01



# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name TALSTAR® PROFESSIONAL INSECTICIDE

Other means of identification

Product Code(s) 1349-A

Active Ingredient(s) Bifenthrin

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 1735 Market Street Philadelphia, PA 19103

(215) 299-6000 (General Information)

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

Emergency telephone number

Medical Emergencies:

1 800 / 331-3148 (PROSAR - U.S.A. & Canada)

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

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)

# 2. HAZARDS IDENTIFICATION

## Classification

## **OSHA Regulatory Status**

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

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

SDS #: 1349-A

**Revision date: 2015-04-10** 

Version 1.01

# 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

P281 - Use personal protective equipment as required

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

# **Precautionary Statements - Response**

P321 - Specific treatment (see supplemental first aid instructions on this label)

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

## **Chemical Family**

Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Propylene glycol	57-55-6	5-10
Bifenthrin	82657-04-3	7.9

Synonyms are provided in Section 1.

# 4. FIRST AID MEASURES

**SDS #**: 1349-A

Revision date: 2015-04-10

Version 1.01

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

Suitable Extinguishing Media Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Soft stream or water fog only if necessary.

Specific Hazards Arising from the

Chemical

**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. 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.

Methods for cleaning up Clean and neutralize spill area, tools and equipment by washing with bleach 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

**SDS #**: 1349-A

Revision date: 2015-04-10 Version 1.01

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propylene glycol 57-55-6	-	-	TWA: 10 mg/m³ (aerosol only)	-
			TWA: 50 ppm (aerosol and vapor)	
			TWA: 155 mg/m³ (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

# Information on basic physical and chemical properties

AppearanceBeige, LiquidPhysical StateLiquidColorBeigeOdorMild

Odor threshold No information available

**pH** 6.7

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point > 65.5 °C / > 149.9 °F Tag Closed Cup

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

Flammability Limit in Air

Upper flammability limit: No information available

**SDS #**: 1349-A

Revision date: 2015-04-10

Version 1.01

Lower flammability limit:No information availableVapor pressureNo information availableVapor densityNo information availableDensityNo information available

Specific gravity 1.024 @ 20 °C Water solubility Dispersible in water No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available No information available Viscosity, dynamic **Explosive properties** No information available Oxidizing properties No information available 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** Hazardous polymerization does not occur.

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**

**LD50 Oral** 632 mg/kg (rat) **LD50 Dermal** > 2000 mg/kg (rabbit)

**LC50 Inhalation** 2.895 mg/L 4 hr (rat) Estimated

Serious eye damage/eye irritation
Skin corrosion/irritation
Skin Contact

Non-irritating.
Non-irritating.
>2000

**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 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.

**SDS #**: 1349-A **Revision date**: 2015-04-10

Version 1.01

**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 effects Bifenthrin: 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.

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

at 49 CFR Parts 100 through 185.

<u>TDG</u> Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no UN3082

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

Hazard class 9
Packing Group III

Marine Pollutant Bifenthrin.

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

ICAO/IATA

UN/ID no UN3082

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

Hazard class 9
Packing Group III

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

Limited quantity 30 kg G

**SDS #**: 1349-A

Revision date: 2015-04-10

Version 1.01

#### IMDG/IMO

UN/ID no UN3082

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

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Marine Pollutant Bifenthrin

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

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:.

Chemical name	California Prop. 65	
Sodium o-phenylphenate - 132-27-4	Carcinogen	

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

**SDS #**: 1349-A **Revision date**: 2015-04-10

Version 1.01

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

## **International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Propylene glycol 57-55-6 ( 5-10 )	X	X	X	X	X	X	X	X
Bifenthrin 82657-04-3 ( 7.9 )				X	X	X		

Mexico - Grade Moderate risk, Grade 2

WHMIS Hazard Class D2A - Very toxic materials



16. OTHER INFORMATION				
NFPA	Health Hazards 2	Flammability 0	Instability 0	Special Hazards -

NIFA	ricaitii riazarus z	i iaiiiiiabiiity 0	instability 0	opeciai riazarus -
HMIS	Health Hazards 2*	Flammability 0	Physical hazard 0	Personal Protection X

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

Revision date: 2015-04-10
Revision note Format Change

## **Disclaimer**

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

**Issuing Date:** 

**FMC** Corporation

FMC Logo - Trademark of FMC Corporation

© 2015 FMC Corporation. All Rights Reserved.

2014-05-05

**End of Safety Data Sheet**