

# MATERIAL SAFETY DATA SHEET

TALSTAR® NURSERY FLOWABLE INSECTICIDE/MITICIDE



MSDS Ref. No.: 82657-04-3-54

Date Approved: 08/30/2004

Revision No.: 5

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This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC directive, 2001/58/EC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TALSTAR® NURSERY FLOWABLE INSECTICIDE/MITICIDE  
**PRODUCT CODE:** 1658  
**ACTIVE INGREDIENT(S):** Bifenthrin  
**CHEMICAL FAMILY:** Pyrethroid Pesticide  
**MOLECULAR FORMULA:**  $C_{23}H_{22}ClF_3O_2$  (bifenthrin)  
**SYNONYMS:** FMC 54800; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; IUPAC: 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate

### MANUFACTURER

FMC CORPORATION  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103  
(800) 321-1362 (General Information)

### EMERGENCY TELEPHONE NUMBERS

(800) 424-9300 (CHEMTREC - U.S.A. & Canada)  
(202) 483-7616 (CHEMTREC - All Other Countries)  
(800) 331-3148 (FMC - U.S.A. & Canada)  
(716) 735-3765 (Reverse charges - FMC)

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## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

- Beige liquid with a bland odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure may result from either swallowing, inhaling or coming into contact with the skin or eyes. Symptoms of overexposure include bleeding from the nose, tremors and convulsions. Contact with bifenthrin may occasionally produce skin

For more information, please contact the manufacturer or supplier of this product. For more information, please contact the manufacturer or supplier of this product.

**MSDS 001**

**5. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name	Concentration (%)	Other Information

**4. FIRST AID MEASURES**

**EYES:** ...  
**SKIN:** ...  
**INHALATION:** ...  
**INGESTION:** ...  
**PREGNANT / BREASTFEEDING:** ...  
**OTHER:** ...

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** ...  
**FIRE EXTINGUISHING EQUIPMENT:** ...

FBI FRAGMENT PROCEEDINGS, Case No. 100-41673-0100, Date: 01/02/2002

6. ACCIDENTAL RELEASE MEASURES

RELEASE WHEN...  
CONTAINMENT...  
CLEANUP...

7. HANDLING AND STORAGE

HANDLING AND STORAGE...  
STORAGE...

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE CONTROLS - PERSONAL PROTECTION...

LIMIT BY CATEGORY		
Category	Value	Unit
Exposure	10	mg/m <sup>3</sup>
Respirator	5	mg/m <sup>3</sup>

EXHAUSTION CAPABILITY...  
VENTILATION...

PERSONAL PROTECTIVE EQUIPMENT...  
PPE...

REMARKS...  
ADDITIONAL INFORMATION...

PROPERTY LISTING	
PROPERTY NAME	PROPERTY VALUE
APPROXIMATE WEIGHT	100.00 g
APPROXIMATE VOLUME	100.00 mL
APPROXIMATE DENSITY	1.00 g/mL
APPROXIMATE MELTING POINT	100.00 °C
APPROXIMATE BOILING POINT	100.00 °C
APPROXIMATE SOLUBILITY	100.00 g/100 mL
APPROXIMATE pH	100.00
APPROXIMATE REFRACTIVE INDEX	100.00
APPROXIMATE VISCOSITY	100.00 cP
APPROXIMATE SURFACE TENSION	100.00 dyne/cm

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY LISTING	
PROPERTY NAME	PROPERTY VALUE
APPROXIMATE WEIGHT	100.00 g
APPROXIMATE VOLUME	100.00 mL
APPROXIMATE DENSITY	1.00 g/mL
APPROXIMATE MELTING POINT	100.00 °C
APPROXIMATE BOILING POINT	100.00 °C
APPROXIMATE SOLUBILITY	100.00 g/100 mL
APPROXIMATE pH	100.00
APPROXIMATE REFRACTIVE INDEX	100.00
APPROXIMATE VISCOSITY	100.00 cP
APPROXIMATE SURFACE TENSION	100.00 dyne/cm

### 10. STABILITY AND REACTIVITY

PROPERTY LISTING	
PROPERTY NAME	PROPERTY VALUE
APPROXIMATE WEIGHT	100.00 g
APPROXIMATE VOLUME	100.00 mL
APPROXIMATE DENSITY	1.00 g/mL
APPROXIMATE MELTING POINT	100.00 °C
APPROXIMATE BOILING POINT	100.00 °C
APPROXIMATE SOLUBILITY	100.00 g/100 mL
APPROXIMATE pH	100.00
APPROXIMATE REFRACTIVE INDEX	100.00
APPROXIMATE VISCOSITY	100.00 cP
APPROXIMATE SURFACE TENSION	100.00 dyne/cm



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