

SAFETY DATA SHEET Talstar 25 g/L EC

SDS #: 0685-A

Revision date: 2021-11-08 Format: AP

Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Talstar 25 g/L EC

0685-A Product Code(s)

Active Ingredient(s) Bifenthrin

Talstar 2.5 EC; Talstar 2.8% EC **Alternate Commercial Name**

Chemical Family Pyrethroid Pesticide

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information) SDS-Info@fmc.com (E-Mail General Information)

Medical Emergencies: 0800 140 1447 **Emergency telephone**

For leak, fire, spill or accidents: 001-803-017-9114 (CHEMTREC Indonesia)

1 703 741-5970 (CHEMTREC – International)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Aspiration toxicity	Category 1
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 5
Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
STOT - single exposure	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Flammable liquids	Category 3

Label Elements

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Signal Word: Danger

Hazard Statements

- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H313 May be harmful in contact with skin
- H318 Causes serious eye damage
- H351 Suspected of causing cancer
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects
- H316 Causes mild skin irritation
- H226 Flammable liquid and vapor

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
- P273 Avoid release to the environment
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P280 Wear eye protection/ face protection

Precautionary Statements - Response

- P321 Specific treatment (see supplemental first aid instructions on this label)
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P330 Rinse mouth
- P331 Do NOT induce vomiting
- P332 + P313 If skin irritation occurs: Get medical advice/ attention
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor/ physician
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before reuse
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 Do NOT induce vomiting
- P330 Rinse mouth

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P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Other Information

May be fatal if swallowed and enters airways

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Bifenthrin	82657-04-3	2.8
Naphtha (petroleum), heavy aromatic	64742-94-5	85-95
Pseudocumene	95-63-6	25-35
Xylenes	1330-20-7	1-5

Section 4: FIRST AID MEASURES

Inhalation Move to fresh air. If person is not breathing, contact emergency medical services, then give

artificial respiration, preferably mouth-to-mouth, if possible. 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.

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.

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do

so by a poison control center or doctor. Do not give any liquid to the person. Do not induce

vomiting or give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Central nervous system effects.

Use personal protective equipment. See Section 8 for more detail.

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

Contains petroleum distillate. Vomiting may cause aspiration pneumonia. 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.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam. Carbon dioxide (CO₂). Dry chemical. Water spray or fog.

Unsuitable extinguishing media No information available

Specific Hazards Arising from the

Chemical

Keep product and empty container away from heat and sources of ignition.

Protective equipment and precautions for firefighters

Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

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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 upClean 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.

Section 7: HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Wash

thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and

dispose of as hazardous waste. See section 13 for 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.

Materials to avoid Strong oxidizing agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Pseudocumene		OEL: 25 ppm			
95-63-6 (25-35)		OEL: 120 mg/m ³			
Xylenes	TWA: 50 mg/m ³	OEL: 50 ppm	STEL: 150 ppm	STEL 150 ppm	STEL 125 ppm
1330-20-7 (1-5)	STEL: 100 mg/m ³	OEL: 217 mg/m ³	TWA: 100 ppm	STEL 655 mg/m ³	STEL 542.5 mg/m ³
		ISHL/ACL: 50 ppm		TWA 80 ppm	
				TWA 350 mg/m ³	

Engineering measures Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the

recommended equipment.

Personal protective equipment

Respiratory Protection The product does not automatically present an airborne exposure concern during normal

handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

Hand Protection Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body ProtectionMinimize skin contamination by following good industrial hygiene practices.

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

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separately from regular household laundry.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceAmber LiquidOdorAromaticColorAmber

Odor threshold
pH
No information available

Flash point 44 - 46 °C / 111.2 - 114.8 °F Closed cup

Evaporation RateFlammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Emulsifies

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Molecular weight

No information available

Relative density 7.33 lb/gal

Bulk density

No information available

Section 10: STABILITY AND REACTIVITY

Reactivity Not applicable

Stability Stable under recommended storage conditions

Hazardous reactionsNone under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid Heat, flames and sparks.

Incompatible products Strong oxidizing agents, Strong acids, Strong bases.

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

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral 1805 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rabbit)

 LC50 Inhalation (dust)
 > 5.5 mg/L 4 hr (rat)

Skin corrosion/irritation Serious eye damage/eye irritationMildly irritating (rabbit).
Severely irritating.

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Sensitization Guinea pig: Non-sensitizing.

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

Mutagenicity Bifenthrin: Not genotoxic in laboratory studies.

Carcinogenicity Bifenthrin: Weak response, treatment related urinary bladder benign tumors (lesions) in

male mice only at the highest dose tested.

Reproductive toxicityBifenthrin: No toxicity to reproduction in animal studies.

Developmental toxicityBifenthrin: Not teratogenic in animal studies.

STOT - single exposureBifenthrin: No specific effects after single exposure have been observed.

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

target organs below.

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.

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.

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

convulsions, tremors and bloody nasal discharge.

Aspiration hazard Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

Chemical name	China	IARC
Xylenes		Group 3

IARC (International Agency for Research on Cancer)

Group 3 - Not classifiable as to its carcinogenicity to humans

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Very toxic to aquatic life with long lasting effects.

Bifenthrin (82657-04-3)							
Active Ingredient(s)	Duration	Species	Value	Units			
	14-day LC50	Eisenia fetida	> 8	mg/kg soil			
	LD50	Bobwhite quail	1800	mg/kg			
	96 h LC50	Salmo gairdneri	0.1	μg/L			
	48 h EC50	Daphnia magna	0.11	μg/L			
	21 d NOEC	Daphnia magna	0.00095	μg/L			
	21 d NOEC	Pimephales promelas	1.86	μg/L			
30 d NOEC		Salmo gairdneri	0.012	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.

Other Adverse Effects No information available.

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Section 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 containers and

packages

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

Refer to the product label for container disposal instructions.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN/ID no UN1993

Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbons, bifenthrin)

Hazard class 3
Packing Group

EmS No. F-E, S-E Environmental Hazards Bifenthrin

ICAO/IATA

UN/ID no UN1993

Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbons, bifenthrin)

Hazard class 3
Packing Group III

Environmental Hazards Bifenthrin

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELIN CS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3				Х	Х	Х		
Naphtha (petroleum), heavy aromatic 64742-94-5	Х	Х	Х		Х	Х	Х	Х
Pseudocumene 95-63-6	X	X	X	Х	Х	X	Х	Х
Xylenes 1330-20-7	X	X	X	Х	X	X	Х	Х

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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Section 16: OTHER INFORMATION

Prepared By: FMC Corporation

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Revision note SDS sections updated.

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End of Safety Data Sheet