

SAFETY DATA SHEET

Talstar 2SC

SDS #: FO004017-A

Revision date: 2021-11-03 Format: AP

Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Talstar 2SC

Product Code(s) FO004017-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-methylbiphenyl-3-ylmethyl

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

(IUPAC name) Xanthan Gum

Active Ingredient(s) Bifenthrin

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)

Emergency telephone Medical Emergencies: 0800 140 1447

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

1 703 741-5970 (CHEMTREC – International)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity - Oral	Category 4
STOT - single exposure	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements



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Signal Word: **Danger**

Hazard Statements

H302 - Harmful if swallowed

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

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

Precautionary Statements - Response

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

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

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

P330 - Rinse mouth

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

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

Other Information

Very toxic to aquatic life with long lasting effects.

May be harmful in contact with skin.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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-dimethylcyclopropanecarboxylate (CAS name);

2-methylbiphenyl-3-ylmethyl (Z)-(1RS,3RS)-3-(2-chloro-3,3,3-trifluoroprop-l-enyl)- 2,2-dimethylcyclopropanecarboxylate (IUPAC name) Xanthan Gum

Chemical name	CAS-No	Weight %	
Bifenthrin	82657-04-3	2	
Propylene glycol	57-55-6	5-10	

Chemical hame	CA3-NU	Weight 70
Bifenthrin	82657-04-3	2
Propylene glycol	57-55-6	5-10
		•

Section 4: FIRST AID MEASURES

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

artificial respiration, preferably mouth-to-mouth, if possible. Call a physician or poison

control center immediately.

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

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.

Ingestion Call a physician or poison control center immediately. 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.

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

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

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, Dry chemical or CO2. Soft stream or water fog only if necessary. Contain all runoff.

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

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

area. Evaluate upwind.

Section 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 confine spill and absorb with non-combustible absorbent such as clay, sand or soil.

Vacuum, shovel or pump waste into a drum and label contents for 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 Handle in accordance with good industrial hygiene and safety practice. 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.

Materials to avoid None known

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Propylene glycol				TWA 150 ppm	
57-55-6 (5-10)				TWA 474 mg/m ³	
` ′				TWA 10 mg/m 3	

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.

Personal protective equipment

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Respiratory Protection For dust, splash, mist or spray exposures wear a elastomeric full-face or half mask

respirator with appropriate cartridges and/or filters which is approved for pesticides (U.S.

NIOSH/MSHA, EU CEN or comparable certification organization).

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

outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

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

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

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance White Liquid
Odor Mild Soapy
Color White

Odor threshold No information available

pH 7.0

Melting point/freezing pointNo information availableBoiling Point/RangeNo information available

Flash point > 100 °C / 212 °F Tag Closed Cup

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

Flammability Limit in Air

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

No information available
No information available
No information available

Specific gravity 1.020- 1.040
Water solubility Soluble in water

No information available Solubility(ies) No information available Partition coefficient No information available **Autoignition temperature Decomposition temperature** No information available No information available Viscosity, kinematic No information available Viscosity, dynamic Molecular weight 422.88 (bifenthrin) Relative density No information available **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 No information available.

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂), Chlorine, fluorine, Hydrogen chloride,

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Hydrogen fluoride.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral : Similar formulation 505 mg/kg (rat)
LD50 Dermal : Similar formulation > 2,000 mg/kg (rabbit)
LC50 Inhalation (dust) : Similar formulation 8.7 mg/L 4 hr (rat)

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)		
Magnesium Nitrate (10377-60-3)	= 5440 mg/kg (Rat)				
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)	= 53 mg/kg(Rat)				
Propylene glycol (57-55-6)	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)			
Magnesium Chloride (7786-30-3)	= 2800 mg/kg (Rat)				
Poloxamer (9003-11-6)	= 16 g/kg (Rat) = 5700 mg/kg (Rat)		= 320 mg/m ³ (Rat) 4 h		
Bifenthrin (82657-04-3)	55 mg/kg (rat)	> 2000 mg/kg (rat)	0.8 mg/L (female, rat) 4 h		

Skin corrosion/irritation

Serious eye damage/eye irritation

Similar formulation. Slightly or non-irritating (rabbit). Similar formulation. Slightly or non-irritating (rabbit).

Sensitization

Sensitizer.

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 toxicity Bifenthrin: No toxicity to reproduction in animal studies.

Developmental toxicityBifenthrin: 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.

Chronic toxicity No data available for the formulation. In studies with laboratory animals, bifenthrin did not

cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of bladder tumors at high doses in male mice was considered an equivocal answer, there is no clear evidence about the effect associated with

the compound. An overall absence of genotoxicity has been demonstrated.

Target organ effects 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.

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Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

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Very toxic to aquatic life with long lasting effects.

sifenthrin (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.

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 UN3082

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

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Environmental Hazards Bifenthrin

ICAO/IATA

UN/ID no UN3082

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

Hazard class 9
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Environmental Hazards Bifenthrin

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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)
	States)		C3 (Europe)		(IECSC)		(Fillippines)	(Australia)
Bifenthrin				X	X	X		
82657-04-3								
Propylene glycol 57-55-6	X	X	X	X	Х	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

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