

SAFETY DATA SHEET

Totality™ Wood Treatment

SDS # : 6206-4-A

Revision date: 2018-07-19

Format: NA

Version 1.04



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Totality™ Wood Treatment

Other means of identification

Product Code(s) 6206-4-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-dimethylcyclopropanecarboxylate (CAS name); 2-methyl-3-phenylbenzyl (1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)

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.

Supplier Address

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A.)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical Emergencies:
1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)
1 651 / 632-6793 (ProPharma Group - 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)

Acute toxicity - Oral

Category 3

| | |
|--|-------------|
| Skin corrosion/irritation | Category 2 |
| Skin sensitization | Category 1B |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 4 |


GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

Hazard Statements
H301 - Toxic if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure

Physical Hazards
H227 - Combustible liquid



Precautionary Statements - Prevention

P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting
P330 - Rinse mouth
P370 + P378 - In case of fire: Use Foam. Carbon dioxide (CO2). Dry chemical. for extinction

Precautionary Statements - Storage

P405 - Store locked up
P403 + P235 - Store in a well-ventilated place. Keep cool

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. May be harmful in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Pyrethroid Pesticide.

| Chemical name | CAS-No | Weight % |
|---|------------|----------|
| Bifenthrin | 82657-04-3 | 23.4 |
| 1,1'-Biphenyl, bis(1-methylethyl)- | 69009-90-1 | 30-40 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 10-20 |
| Calcium dodecylbenzene sulfonate | 26264-06-2 | 1-5 |

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

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| 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 | If swallowed, do not induce vomiting - seek medical 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, Allergic skin reactions. |
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. 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. |

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media | Use CO ₂ , dry chemical, or foam. |
| Specific Hazards Arising from the Chemical | Combustible liquid |
| Hazardous Combustion Products | Toxic fumes may be produced. |
| Explosion data | |
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge | No information available. |
| Protective equipment and precautions for firefighters | As in any fire, wear self-contained breathing apparatus and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

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| 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. |
|-----------------------------|--|

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|----------------------------------|---|
| 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 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. 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 |
|--|------------------------------------|--------|---------------|---------|
| Petroleum distillates, hydrotreated light (64742-47-8) | TWA: 200 mg/m ³ Skin | - | - | - |

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 | Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks. |
| 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 | Amber Liquid |
| Physical State | Liquid |
| Color | Amber |
| Odor | Hydrocarbon-like |
| Odor threshold | No information available |
| pH | 3.9 |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | 73 - 75 °C / 153-158 °F |
| 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 | 8.59 lb/gal |
| Specific gravity | 1.031 @ 20°C |
| Water solubility | Emulsifies |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Molecular weight | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

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|------------------------------------|--|
| 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. Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride. |

11. TOXICOLOGICAL INFORMATION**Product Information**

| | |
|-----------------------------------|-------------------------------|
| LD50 Oral | 153 mg/kg (rat) |
| LD50 Dermal | > 2,000 5,000 mg/kg (rabbit) |
| LC50 Inhalation | > 7.25 mg/L 4 hr |
| Serious eye damage/eye irritation | Mildly irritating (rabbit). |
| Skin corrosion/irritation | Severely irritating (rabbit). |
| Sensitization | Sensitizer |

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 | Effects are expected to be similar to those that are seen with acute toxicity. Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage. |
| Mutagenicity | Bifenthrin: Not genotoxic in animal studies. |
| Carcinogenicity | Bifenthrin: Did not show carcinogenic effects in animal experiments. |
| Neurological effects | Tremors were associated with chronic exposure of laboratory animals to bifenthrin, which may disappear with continued exposure. |
| Reproductive toxicity | Bifenthrin: No toxicity to reproduction in animal studies. |
| 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: A slight increase in male mouse urinary bladder tumors at the highest dose was probably not of toxicological concern. |
| Neurological effects | Tremors were associated with chronic exposure of laboratory animals to bifenthrin, which may disappear with continued exposure. |
| Aspiration hazard | Potential for aspiration if swallowed. |

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 | Inherently biodegradable. |
| Bioaccumulation | Bifenthrin: The substance has a potential for bioconcentration. |
| Mobility | Bifenthrin: Immobile. Not expected to reach groundwater. |

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|--|
| Waste disposal methods | Pesticide wastes are toxic. 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

| | |
|-----------------------------|---|
| <u>DOT</u> | 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. |
| Packaging Type | 4 x 1 quart, 4 x 4 x 1 quart |
| UN/ID no | UN3352 |
| Proper Shipping Name | Pyrethroid pesticide, liquid, toxic |

Hazard class 6.1
Packing Group III
Description UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin), 6.1, PGIII

TDG The "Marine Pollutant" marking is only applicable when shipped by vessel, and is not applicable when shipped only by road or rail in Canada.

UN/ID no UN3352
Proper Shipping Name Pyrethroid pesticide, liquid, toxic
Hazard class 6.1
Packing Group III
Marine Pollutant Bifenthrin.
Description UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin), 6.1, PGIII, Marine Pollutant

ICAO/IATA

UN/ID no UN3352
Proper Shipping Name Pyrethroid pesticide, liquid, toxic
Hazard class 6.1
Packing Group III
Special Provisions Country of origin or destination regulations may require the addition of "Marine Pollutant" to the marks and shipping paper description.
Description UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin), 6.1, PGIII, Marine Pollutant
Limited quantity 611 / 60L

IMDG/IMO

UN/ID no UN3352
Proper Shipping Name Pyrethroid pesticide, liquid, toxic
Hazard class 6.1
Packing Group III
EmS No. F-A,S-A
Marine Pollutant Bifenthrin
Description UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin), 6.1, PGIII, Marine Pollutant

Classification code T6

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 | 23.4 | 1.0 |

SARA 311/312 Hazard Categories

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

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

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:

Warning

May be fatal if swallowed. Causes skin irritation and moderate eye irritation.

This pesticide 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 82657-04-3 | X | | |

International Inventories

| Chemical name | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|--|-------------------------|-----------------|---------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Bifenthrin 82657-04-3 | | | | X | X | X | | |
| 1,1'-Biphenyl, bis(1-methylethyl)- 69009-90-1 | X | X | X | X | X | | | |
| Petroleum distillates, hydrotreated light 64742-47-8 | X | X | X | | X | X | X | X |

Mexico - Grade

Serious risk, Grade 3

| 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 2500 kg/yr | 100 kg/yr |

CANADA
WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class

B3 - Combustible liquid

D1B - Toxic materials

D2B - Toxic materials

**16. OTHER INFORMATION**

| | | | | |
|-------------|--------------------------|-----------------------|--------------------------|------------------------------|
| NFPA | Health Hazards 1 | Flammability 2 | Instability 0 | Special Hazards - |
| HMIS | Health Hazards 3* | Flammability 2 | Physical hazard 0 | Personal Protection X |

*Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

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Reason for revision: Format Change

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End of Safety Data Sheet