

Safety Data Sheet 1496

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/16/2016 Revision date: 12/08/2016 Version: 3.0

SECTION 1: Identification

Identification

Mixture Product form: Product name: Tundra™ FC

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Industrial use

Details of the supplier of the safety data sheet

Winfield Solutions, LLC

P.O. Box 64589

St. Paul, MN 55164-0589, USA

Non-Emergency Business Inquiries: 1-855-494-6343 (Mon- Fri 8am - 5pm CST)

Emergency telephone number

Medical Emergency Telephone Number: 1-877-424-7452 (24 hrs) **Emergency numbers**

For Emergency, Spill, Leak, Fire, Exposure or Accident, Call: CHEMTREC 1-800-424-9300 (24 hrs)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227 -Combustible liquid Acute Tox. 2 (Oral) H300 -Fatal if swallowed Acute Tox. 4 (Inhalation:dust,mist) H332 -Harmful if inhaled

May cause an allergic skin reaction Skin Sens. 1 H317 -Carc. 2 H351 -Suspected of causing cancer

STOT RE 1 Causes damage to organs (central nervous system) H372 -

through prolonged or repeated exposure

Full text of H statements: see section 16

2.2. Label elements

Signal word (GHS-US):

GHS-US labeling

Hazard pictograms (GHS-US):



GHS06



GHS07



GHS08

Danger

Hazard statements (GHS-US): H227 - Combustible liquid

H300 - Fatal if swallowed

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

H372 - Causes damage to organs (central nervous system) through prolonged or repeated

exposure

Precautionary statements (GHS-US): P201 - Obtain special instructions before use

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 fume, mist, spray, vapors P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 - If swallowed: Immediately call a POISON CENTER

P302+P352 - If on skin: Wash with plenty of water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P312 - Call a doctor if you feel unwell

P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see ... on this label)

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P330 - Rinse mouth

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2) to extinguish

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

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	39.6	Flam. Liq. 3, H226 Asp. Tox. 1, H304
bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl rel-(1R,3R)-3- [(1Z)-2-chloro- 3,3,3-trifluoroprop-1-en-1-yl]- 2,2- dimethylcyclopropanecarboxylate	(CAS No) 82657-04-3	25.1	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Sens. 1B, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3 (Inhalation), H331

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Call a physician immediately.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact: May cause an allergic skin reaction.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray.

Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

In case of large spillages: Soak up spills with inert solids, such as clay or diatomaceous earth

as soon as possible. Sweep up or vacuum up the product. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Notify

authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fume, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves. Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear respiratory protection.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Colourless.
Odor: Odourless.

Odor threshold: No data available

pH: 4.68

Melting point:

Freezing point:

No data available

Boiling point:

No data available

Flash point: 171 °F

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Relative evaporation rate (butyl acetate=1): No data available Flammability (solid, gas): No data available **Explosion limits:** No data available Explosive properties: No data available No data available Oxidizing properties: Vapor pressure: No data available No data available Relative density: Relative vapor density at 20 °C: No data available Specific gravity / density: 0.958 g/cm3

Solubility: Water: Solubility in water of component(s) of the mixture:

Solvent naphtha, petroleum, heavy aromatic: < 1 mg/l (at 20 °C)

Log Pow:

Auto-ignition temperature:

No data available

Decomposition temperature:

No data available

Viscosity:

No data available

Viscosity, kinematic:

No data available

Viscosity, dynamic:

No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure: Ingestion; Inhalation

Acute toxicity: Oral: Fatal if swallowed. Inhalation:dust,mist: Harmful if inhaled.

Tundra™ EC	
Acute Oral (rat)	LD50= 94 mg/kg body weight
Acute Inhalation (dust, mist)	LC50= > 2.19 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 inhalation rat (mg/l)	> 590 mg/m³ (Exposure time: 4 h)

bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl rel-(1R,3R)-3-[(1Z)-2-chloro- 3,3,3-trifluoroprop-1-en-1-yl]- 2,2-dimethylcyclopropanecarboxylate (82657-04-3)	
ATE US (oral)	5.000 mg/kg body weight
ATE US (dust, mist)	0.500 mg/l/4h

Skin corrosion/irritation: Not classified

pH: 4.68

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Serious eye damage/irritation: Not classified

pH: 4.68

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not classified Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity

(repeated exposure):

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard: Not classified

Symptoms/injuries after skin contact: May cause an allergic skin reaction.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Toxic to aquatic life.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)		
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
BCF fish 1	61 - 159
Log Pow	2.9 - 6.1

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions. :

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the

environment.

SECTION 14: Transport information

Department of Transportation (DOT): UN3351, Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin, Xylene), 6.1, (3), PG III

Transport by sea

Class (IMDG): Not determined

Air transport

Class (IATA): Not determined

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl rel-(1R,3R)-3-

CAS No 82657-04-3

25.1%

[(1Z)-2-chloro- 3,3,3-trifluoroprop-1-en-1-yl]- 2,2-

dimethylcyclopropanecarboxylate

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

EPA Registration Number: 1381-196

FIFRA Hazard Statement: Keep reach out of reach of children. WARNING. May be fatal if swallowed. Causes

substantial but temporary eye injury. Do not get into eyes or on clothing. Wear protective eyewear such as goggles or safety glasses. Harmful if inhaled, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco

or using the toilet.

FIFRA Signal Word: WARNING

FIFRA Other: Restricted Ue Pesticide: Toxic to fish and aquatic organisms.

15.2. International regulations

CANADA

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Soybean oil, methyl ester (67784-80-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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SECTION 16: Other information

Revision date: 12/08/2016

Full text of H-phrases:

H226 Flammable liquid and vapor

H227 Combustible liquid

H300 Fatal if swallowed

H304 May be fatal if swallowed and enters airways

H317 May cause an allergic skin reaction

H331 Toxic if inhaled

H332 Harmful if inhaled

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012 - FIFRA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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