

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Name : CFT Legumine Fish Toxicant
 Synonyms : 100209000, 100209001, EPA Reg. No.: 89459-48

1.2. Recommended use and restrictions on use

Recommended use : Piscicide.
 Restrictions on use : Keep out of reach of children. Avoid inhalation of vapors or fumes. Use in well ventilated area. Avoid all contact with skin, eyes, or clothing. Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Do not use or store near heat or open flame.

1.3. Supplier

Central Garden & Pet
 1501 E. Woodfield Road, Suite 200W
 Schaumburg, IL 60173 - United States

1.4. Emergency telephone number

Emergency number : 1-800-248-7763
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4	Combustible liquid
Acute toxicity (oral) Category 4	Harmful if swallowed
Acute toxicity (inhalation) Category 2	Fatal if inhaled
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2A	Causes serious eye irritation
Reproductive toxicity Category 1B	May damage fertility or the unborn child
Specific target organ toxicity — Single exposure, Category 3, Narcosis	May cause drowsiness or dizziness

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :   

GHS06 GHS07 GHS08

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Combustible liquid
 Harmful if swallowed
 Causes skin irritation
 Causes serious eye irritation
 Fatal if inhaled
 May cause drowsiness or dizziness
 May damage fertility or the unborn child

Precautionary statements (GHS US) : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 In case of inadequate ventilation wear respiratory protection.
 If swallowed: Call a poison center or doctor if you feel unwell.

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IF ON SKIN: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Immediately call a poison center or doctor.
Rinse mouth.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use media to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product is extremely toxic to fish and other aquatic organisms. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Rotenone	(CAS-No.) 83-79-4	5
Cube Resins other than rotenone	(CAS-No.) N/A	5
2-Pyrrolidone, 1-methyl-	(CAS-No.) 872-50-4	10
Diethylene Glycol Monoethyl Ether	(CAS-No.) 111-90-0	56.7
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

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 : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Fatal if inhaled. Causes dizziness or drowsiness if inhaled at non-lethal doses.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Harmful if swallowed.
Chronic symptoms : May damage fertility or the unborn child.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Alcohol-resistant foam. Carbon dioxide.
Unsuitable extinguishing media : Avoid heavy hose streams.

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5.2. Specific hazards arising from the chemical

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

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers. LARGE FIRES: Move containers from fire area if you can do it without risk. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Keep unauthorized personnel away. Eliminate all ignition sources if safe to do so. Evacuate area. Stay upwind.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : 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.
- Emergency procedures : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Stay upwind. Stop leak if safe to do so. Wear appropriate personal protective equipment, avoid direct contact. Do not touch spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Turn off electric power to area. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Do not allow runoff into water, storm drains or drainage ditches.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Do not flush to sewer or allow to enter waterways. Wear appropriate personal protective equipment, avoid direct contact. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe vapor/mist/spray. Avoid contact with skin, eyes and clothing. Keep away from ignition sources/sparks. Do not discharge the waste into the drain. Do not allow contact with oxidizing materials, strong acids.
- Hygiene measures : 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 : Do not store near heat or open flame. Keep from freezing. Keep only in original container. Protect from sunlight. Store locked up. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Avoid extreme temperatures. Store at room temperature.
- Incompatible materials : Strong acids. Strong oxidizers. Heat, sparks, open flame.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rotenone (83-79-4)		
ACGIH	ACGIH OEL TWA	5 mg/m ³ (commercial)
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL TWA [1]	5 mg/m ³
IDLH	IDLH	2500 mg/m ³
NIOSH	NIOSH REL TWA	5 mg/m ³

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2-Pyrrolidone, 1-methyl- (872-50-4)		
AIHA	WEEL TWA [ppm]	10 ppm

Diethylene Glycol Monoethyl Ether (111-90-0)		
AIHA	WEEL TWA [ppm]	25 ppm

8.2. Appropriate engineering controls

- Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemical resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber or viton

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Coveralls worn over long-sleeve shirt and long pants. Chemical-resistant apron. Socks plus chemical-resistant shoe coverings or chemical-resistant footwear. .

Respiratory protection:

Wear a dust/mist respirator



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Orange viscous liquid
Color	: Orange
Odor	: Solvent
Odor threshold	: No data available
pH	: 4.5 (1% aqueous solution)
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 88.89 °C (192 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.09
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

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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. Reacts vigorously with strong oxidizers and acids. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat, sparks, open flame. Excess heat. Protect from sunlight. Do not freeze.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce toxic fumes/vapors including oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Rotenone (83-79-4)	
LD50 oral rat	39.5 mg/kg female, LD50 102 mg/kg male
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	0.0212 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Fatal if inhaled.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

Acute : Fatal if inhaled. Causes drowsiness and dizziness if inhaled at non-lethal doses.

Skin

Acute : Causes skin irritation.

Eye

Acute : Causes serious eye irritation.

Ingestion

Acute : Harmful if swallowed.

Mutagenicity : Rotenone is not mutagenic.

Carcinogenicity : No component in this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

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Reproductive Effects : Rotenone has been tested and does not cause birth defects. Rotenone does not have adverse effects on reproduction. 2-Pyrrolidone, 1-methyl- caused adverse effects on sexual function and fertility and/or development based on animal experiments.

SECTION 12: Ecological information

12.1. Toxicity

Rotenone (83-79-4)	
LC50 Acute fish 1	0.00194 mg/l (Exposure time: 96h - Rainbow trout)
EC50 Acute crustacea 1	0.0037 ml/l (Exposure time: 96h - Daphnia magna)
NOEC Chronic fish 1	0.00101 mg/l (Rainbow trout)
NOEC Chronic crustacea 1	0.00125 mg/l (Daphnia magna)

2-Pyrrolidone, 1-methyl- (872-50-4)	
LC50 Acute fish 1	832 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 Acute fish 2	1072 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 Acute fish 3	1400 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 - Crustacea [1]	4897 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Rotenone (83-79-4)	
Persistence and degradability	Rotenone is not persistent in the environment and its low vapor pressure (6.9×10^{-10} torr) and Henry's Law constant (1.1×10^{-13} atm-m ³ mol ⁻¹) limit its volatility. If released to water, rotenone generally degrades quickly through abiotic (hydrolytic and photolytic) mechanisms.

12.3. Bioaccumulative potential

Rotenone (83-79-4)	
Partition coefficient n-octanol/water (Log Pow)	4.1
Bioaccumulative potential	Rotenone has a relatively low potential for bioconcentrating in aquatic organisms.

2-Pyrrolidone, 1-methyl- (872-50-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.46 (at 25 °C)

12.4. Mobility in soil

Rotenone (83-79-4)	
Mobility in soil	Rotenone is mobile to moderately mobile in soil and sediment with a half-life of a few days to several weeks or longer depending on water temperature

12.5. Other adverse effects

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Ecological Fate	This product is extremely toxic to fish and other aquatic organisms.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Not applicable
IMDG	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine pollutant
IATA	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Not applicable

Other Information : The calculated 1-hour acute toxicity for inhalation LC50 = 1.6 mg/L

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SECTION 15: Regulatory information

15.1. US Federal regulations

2-Pyrrolidone, 1-methyl- (872-50-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1 %

Diethylene Glycol Monoethyl Ether (111-90-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA Labelling

EPA Registration Number 89459-48

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Hazard statements **Warning**

FIFRA Precautionary statements **KEEP OUT OF REACH OF CHILDREN.**

FIFRA Hazards to Humans and Domestic Animals May be fatal if inhaled. Do not breathe the vapors or spray mists. May be fatal if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Do not get in eyes or on skin or clothing.

FIFRA First aid **IF INHALED:** Move person 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. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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. **IF IN EYES:** Hold eye 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 treatment advice. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

FIFRA Environmental hazards This product is extremely toxic to fish and other aquatic organisms. Fish kills are expected at recommended rates. Consult your State Fish and Game Agency and other agencies before applying this product to public waters to determine if a permit is needed for such an application. Do not contaminate water outside of the treatment area by cleaning of equipment or disposal of equipment washwaters. Do not contaminate water outside of the treatment area, food or feed by storage or disposal. Do not discharge effluent containing this pesticide into sewage systems without notifying the sewage treatment plant authority (PTOW).

FIFRA Physical hazards **FLAMMABLE.** Keep away from heat and open flame

15.2. US State regulations

No additional information available

SECTION 16: Other information

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SDS US (GHS HazCom 2012) - CGP

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