

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- **CFT Legumine Fish Toxicant**

Synonyms

- 100209000; 100209001; EPA Reg. No.: 89459-48

Product Description

- Orange viscous liquid.

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

Recommended use

- Piscicide.

Restrictions on use

- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid release to the environment. Use in well ventilated area. Avoid inhalation of vapors or fumes. For use by certified applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Details of the supplier of the safety data sheet

Manufacturer

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

www.central.com

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - Chemtrec - Outside US collect calls accepted

Manufacturer • 1-800-248-7763

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Eye Irritation 2A
Flammable Liquids 4
Skin Irritation 2
Acute Toxicity Oral 4
Acute Toxicity Inhalation 2
Reproductive Toxicity 1B
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Label elements

OSHA HCS 2012**DANGER**

- Hazard statements** • Causes serious eye irritation
 Causes skin irritation
 Combustible liquid
 Fatal if inhaled
 Harmful if swallowed
 May damage fertility or the unborn child.
 May cause drowsiness or dizziness

Precautionary statements

- Prevention** • Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Do not breathe dust, fume, gas, mist, vapours and/or spray.
 In case of inadequate ventilation wear respiratory protection.
 Keep away from flames and hot surfaces. - No smoking.
 Wear respiratory protection.
- Response** • IF ON SKIN: Wash with plenty of soap and water.
 Specific treatment, see supplemental first aid information.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use appropriate media Water fog, foam, dry chemical or carbon dioxide (CO₂). for extinction.
 Immediately call a POISON CENTER or doctor/physician.
 IF exposed or concerned: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Keep container tightly closed.

Other hazards**OSHA HCS 2012**

- This product is extremely toxic to fish. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Rotenone	CAS:83-79-4	5%
Cubé Resins other than Rotenone	NDA	5%
2-Pyrrolidinone, 1-methyl-	CAS:872-50-4	10%
Diethylene glycol monoethyl ether	CAS:111-90-0	56.7%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CONTROL center or doctor.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

- 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/attention.

Ingestion

- IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Harmful if swallowed, fatal if inhaled, causes dizziness or drowsiness if inhaled at non-lethal doses, causes serious eye irritation, causes skin irritation, may damage fertility or the unborn child. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use water spray, alcohol-resistant foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • Avoid heavy hose streams.

Firefighting Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
Do not allow fire fighting water to escape into waterways or sewers.
LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.
LARGE FIRES: Move containers from fire area if you can do it without risk.

Stay upwind.
 Ventilate closed spaces before entering.
 Do not breathe gas/fumes/vapor/spray.
 Keep unauthorized personnel away.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Combustible liquid.
Containers may explode when heated.

Hazardous Combustion Products

- Carbon monoxide and carbon dioxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing fumes. Keep all sources of ignition away.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid release into the environment. Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Take precautionary measures against static discharge. Turn off electric power to area.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.
 LARGE SPILLS: Dike far ahead of spill for later disposal.
 Stop leak if you can do it without risk.
 SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
 Wear appropriate personal protective equipment, avoid direct contact.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin or eyes.

Conditions for safe storage, including any incompatibilities

Storage

- Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep from freezing. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F Do not store at temperatures below 4.4°C/40°F. Keep container tightly closed. Store only in original container.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame. Strong acids, oxidizing agents and toxic materials.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No data available.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Rotenone (83-79-4)	TWAs	5 mg/m ³ TWA (commercial)	5 mg/m ³ TWA	5 mg/m ³ TWA

Exposure Limits Supplemental

ACGIH

- Rotenone (83-79-4): **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- Wear a dust/mist (or particulate) respirator.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Impervious gloves. Some materials that are chemical resistant to this product are Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton.

Skin/Body

- Coveralls, over long-sleeved shirt and long pants will be needed. Mixers, loaders, and others exposed to the concentrate, through cleaning equipment or spills must wear a chemical-resistant apron.

Environmental Exposure Controls

- Refer to Section 13 - Disposal Considerations.

Other Information

- See product label for specific use PPE instructions.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Orange viscous liquid.
Color	Orange	Odor	Solvent
Odor Threshold	No data available		
General Properties			

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	4.5 (1% aqueous solution)
Specific Gravity/Relative Density	= 1.09 Water=1	Density	No data available
Water Solubility	No data available	Viscosity	No data available
Critical Temperature	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	192 °F(88.8889 °C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat >110°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Keep away from fire. Do not allow product to freeze.

Incompatible materials

- Strong oxidizing agents and strong acids.

Hazardous decomposition products

- Thermal decomposition may produce oxides of carbon.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Rotenone (5%)	83-79-4	Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 39.5 mg/kg; Ingestion/Oral-Rat, adult male LD50 • 102 mg/kg; Inhalation-Rat LC50 • 0.0212 mg/L 4 Hour(s); Skin-Rabbit LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation 2; Acute Toxicity - Oral 4
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2

Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met - Not classified - data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 1B
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- Fatal if inhaled. May affect the central nervous system. Symptoms may include dizziness or drowsiness. May cause respiratory irritation.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- Causes skin irritation.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Harmful if swallowed.

Chronic (Delayed)

- No data available

Mutagenic Effects

- Rotenone is not mutagenic.

Carcinogenic Effects

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

Reproductive Effects

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

Section 12 - Ecological Information

Toxicity

Components		
Rotenone (5%)	83-79-4	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.00194 mg/L [Acute] NOEC <i>Rainbow Trout</i> 0.00101 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.00125 mg/L [Chronic] 96 Hour(s) EC50 <i>Daphnia magna</i> 0.0037 mg/L [Acute]

Persistence and degradability

- Rotenone is not persistent in the environment and its low vapor pressure (6.9x10⁻¹⁰ torr) and Henry's Law constant (1.1x10⁻¹³ atm-m³ mol⁻¹) limit its volatility. If released

to water, rotenone generally degrades quickly through abiotic (hydrolytic and photolytic) mechanisms.

Bioaccumulative potential

- Rotenone has a relatively low potential for bioconcentrating in aquatic organisms.

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.

Other adverse effects

Potential Environmental Effects

- Extremely toxic to fish and aquatic invertebrates.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Never place unused product down any indoor or outdoor drain.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions. Nonrefillable container.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine Pollutant
IMO/IMDG	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine Pollutant
IATA/ICAO	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information The calculated 1-hour acute toxicity for inhalation LC50 = 0.876 mg/L.

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, SARA Title III Section 313, Chronic

FIFRA – Pesticide Labeling

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.

WARNING

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

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.

First Aid

Have product container or label with you when obtaining treatment advice. 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 the 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 15-20 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 at for treatment advice.

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 wash waters. 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).

Physical or Chemical Hazards • FLAMMABLE Keep away from heat and open flame.

Inventory		
Component	CAS	TSCA
Diethylene glycol monoethyl ether	111-90-0	Yes
2-Pyrrolidinone, 1-methyl-	872-50-4	Yes
Rotenone	83-79-4	No

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Diethylene glycol monoethyl ether	111-90-0	Not Listed
-------------------------------------	----------	------------

• 2-Pyrrolidinone, 1-methyl-	872-50-4	1.0 % de minimis concentration
• Rotenone	83-79-4	Not Listed
U.S. - EPA - Designated Generic Categories - Certain Glycol Ethers		
• Diethylene glycol monoethyl ether	111-90-0	
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed
• Rotenone	83-79-4	Not Listed

Section 16 - Other Information

Revision Date	• 4/January/2018
Last Revision Date	• 15/May/2017
Preparation Date	• 20/June/2016
Disclaimer/Statement of Liability	• The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.
Revision Statement:	Updated Section 1