



RAINBOW TECHNOLOGY
Specialists in Utility Chemicals & Safety Items

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Woman-Owned Business Enterprise - Founded 1971

Safety Data Sheet (SDS)

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Manufacturer/Distributor:	Rainbow Technology Corporation (800)637-6047
Contact Person:	Larry Joe Steeley Jr.
Emergency Phone # (24 HOURS):	Chem-Tel, Inc. (800)255-3924
Trade Name:	Rainbow Fire Ant Killer; EPA Reg. No. 13283-14
Product Number:	4480-4 oz. Bags, 4483 -6 lb. Jar, 4484-2 lb. Jar
Chemical Name:	Mixture
Chemical Family:	Mixture
Formula:	Granular
Issue Date:	July 20, 2021
Replaces SDS Dated:	August 4, 2015

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 3 - (H301)
Acute aquatic toxicity	Category 1 - (H400)
Hazardous to the Aquatic Environment - Chronic Hazard	Category 1 - (H410)

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard Statements

H301 - Toxic if swallowed
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
P270 - Do not eat, drink or smoke when using this product
P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

Safety Data Sheet (SDS)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Chlorpyrifos	97	2921-88-2	220-864-4	015-084-00-4	Acute Tox. 3 (H301) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	10000	-

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
Self-protection of the first aider	Use personal protective equipment as required.

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

Symptoms None known

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

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use, Dry chemical, Carbon dioxide (CO₂), Water spray (fog), Alcohol resistant foam.

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes.

Safety Data Sheet (SDS)

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Safety Data Sheet (SDS)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Chlorpyrifos 2921-88-2		STEL: 0.6 mg/m ³ TWA: 0.2 mg/m ³ Skin	TWA: 0.2 mg/m ³	S* TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Chlorpyrifos 2921-88-2		TWA: 0.1 mg/m ³		TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³ Skin	TWA: 0.2 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Chlorpyrifos 2921-88-2	Skin STEL 0.4 mg/m ³ TWA: 0.2 mg/m ³	Skin TWA: 0.2 mg/m ³	NDSch: 0.6 mg/m ³ TWA: 0.2 mg/m ³ Skin	TWA: 0.2 mg/m ³ Skin STEL: 0.6 mg/m ³	TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³ Skin

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Body Protection

Gloves made of plastic or rubber, Suitable protective clothing, Rubber boots, Apron, Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact, Suitable protective clothing.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Solid, crystalline		
Color	: Off-white		
Odor	: Slight, characteristic		
Odor threshold	: No data available		
pH	: ----		Not Applicable
Melting point/freezing point °C	: 40.1 - 42.3	OECD 102	
Boiling point/boiling range °C	: ----		Decomposes
Flash point °C	: ----		No data available
Evaporation rate	: ----		No data available
Flammability (solid, gas)	: Not flammable		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: 6.6 *10 ⁻⁷	OECD 104	25 °C
Vapor density	: No data available		
Relative density	: 1.5 - 1.6	OECD 109	25 °C
Solubility(ies) mg/l	: 0.588	OECD 105	20 °C
Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
Autoignition temperature °C	: 280	EEC A.15	
Decomposition temperature °C	: > 160	EEC A.2	
Kinematic viscosity mm ² /s 40 °C	: ----		Not Applicable
Explosive properties	: Not an explosive	EEC A.14	
Oxidizing properties	: Not oxidizing	EEC A.17	

Safety Data Sheet (SDS)

9.2. Other information

Bulk density : 36lb/ft3
Surface tension mN/m : ---- Not Applicable

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 168	Rat	OECD 401	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: 2.89	Rat		
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit		
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit		
Respiratory/skin sensitization	: Not a skin sensitizer	Guinea pig		

Chronic toxicity

Germ cell mutagenicity

Chemical Name
Chlorpyrifos : Not classified

Carcinogenicity

Chemical Name
Chlorpyrifos : Not Carcinogenic

Reproductive toxicity

Chemical Name
Chlorpyrifos : Not toxic for the reproductive system

STOT - single exposure

Chemical Name
Chlorpyrifos : No information available

Safety Data Sheet (SDS)

STOT - repeated exposure

Chemical Name

Chlorpyrifos : No information available

Aspiration hazard

Chemical Name

Chlorpyrifos : No information available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l	: 0.025	Oncorhynchus mykiss	EPA-FIFRA 72-1	
Crustacea 48-hour EC50 mg/l	: 0.0001	Daphnia magna	EPA-FIFRA 72-2	
Algae 72-hour EC50 mg/l	: 1.2		OECD 201	
Other plants EC50 mg/l	: ---			No data available

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name

Chlorpyrifos : 476

Bees Oral LD50 µg/bee

Chemical Name

Chlorpyrifos : 0.25

12.2. Persistence and degradability

Abiotic Degradation	Values	Method	Remarks
Water DT50 days			
Chemical Name			
Chlorpyrifos	: 16 - 35		pH 7; 25 ° C
Soil DT50 days			
Chemical Name			
Chlorpyrifos	: 13 - 22		
Biodegradation			
Chemical Name			
Chlorpyrifos	: Not readily biodegradable		

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow	Values	Method	Remarks
Chemical Name			
Chlorpyrifos	: 4.76	OECD 107	
Bioconcentration factor (BCF)			
Chemical Name			
Chlorpyrifos	: 1374		No bioaccumulation potential

12.4. Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name			
Chlorpyrifos	: 2785 - 31000	OECD 106	Koc

Safety Data Sheet (SDS)

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No	2783
14.2 Proper shipping name	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Chlorpyrifos)
14.3 Hazard Class	6.1
14.4 Packing Group	III
14.5 Marine pollutant	Yes
14.6 Special precautions for user	

RID/ADR

14.1 UN/ID No	2783
14.2 Proper shipping name	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Chlorpyrifos)
14.3 Hazard Class	6.1
14.4 Packing Group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	

ICAO/IATA

14.1 UN/ID No	2783
14.2 Proper shipping name	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Chlorpyrifos)
14.3 Hazard Class	6.1
14.4 Packing Group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Applicable



Safety Data Sheet (SDS)

Section 15: REGULATORY INFORMATION

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

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Note

*** - Change from previous version.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet