



**RAINBOW TECHNOLOGY**  
Specialists in Utility Chemicals & Safety Items

261 Cahaba Valley Parkway - Pelham, AL 35124-1146  
Tel: 1.800.637.6047 / 205.733.0333  
Fax: 1.800.521.6896 / 205.733.8930  
www.rainbowtech.net

*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:	August 4, 2015
Replaces SDS Dated:	February 11, 2015

## Section 2: HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

<b>Acute toxicity - Oral</b>	Category 3 - (H301)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Hazardous to the Aquatic Environment - Chronic Hazard</b>	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

<b>General advice</b>	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!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	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 <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup>	S* TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Chlorpyrifos 2921-88-2		TWA: 0.1 mg/m <sup>3</sup>		TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup> Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Chlorpyrifos 2921-88-2	Skin STEL 0.4 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	Skin TWA: 0.2 mg/m <sup>3</sup>	NDSch: 0.6 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup> Skin STEL: 0.6 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> Skin

### 8.2. Exposure controls

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Body Protection</b>	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.
<b>General Hygiene Considerations</b>	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.
<b>Environmental exposure controls</b>	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>
<b>Appearance</b>			
<b>Physical state</b>	: Solid, crystalline		
<b>Color</b>	: Off-white		
<b>Odor</b>	: Slight, characteristic		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: ----		Not Applicable
<b>Melting point/freezing point °C</b>	: 40.1 - 42.3	OECD 102	
<b>Boiling point/boiling range °C</b>	: ----		Decomposes
<b>Flash point °C</b>	: ----		No data available
<b>Evaporation rate</b>	: ----		No data available
<b>Flammability (solid, gas)</b>	: Not flammable		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: 6.6 *10 <sup>-7</sup>	OECD 104	25 °C
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 1.5 - 1.6	OECD 109	25 °C
<b>Solubility(ies) mg/l</b>	: 0.588	OECD 105	20 °C
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		See Section 12 for more information
<b>Autoignition temperature °C</b>	: 280	EEC A.15	
<b>Decomposition temperature °C</b>	: > 160	EEC A.2	
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: ----		Not Applicable
<b>Explosive properties</b>	: Not an explosive	EEC A.14	
<b>Oxidizing properties</b>	: Not oxidizing	EEC A.17	

# Safety Data Sheet (SDS)

## 9.2. Other information

**Bulk density** g/ml : --- No data available  
**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**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
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**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
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**

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

**12.4. Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
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

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	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