Tenkoz Cypermethrin Insecticide

Revision: 6

Date Issued: 11/19/12

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

Company:

Product Information: Product Name: EPA Reg. No: Product Use: FOR MEDICAL EME Tenkoz, Inc. 1725 Windward Concourse, Ste 410 Alpharetta, GA 30005 www.tenkoz.com **Tenkoz Cypermethrin Insecticide 70506-20-55467** Insecticide

FOR MEDICAL EMERGENCIES, contact the Rocky Mountain Poison Control Center at 1-866-673-6671 (24 hrs) FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300 (24 hrs)

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Mild eye irritation.

May cause reversible skin reaction.

WARNING!

Appearance: Yellow

Physical State: Liquid

Odor: Aromatic

Potential Health Effects

Skin contact

- Contains aromatic hydrocarbons- aspiration hazard

Eyes: May cause tearing.

Skin: Skin contact may produce skin sensations such as numbing, burning, or tingling. These sensations are reversible within 12 - 24 hours of onset.

Ingestion: Mild to severe lung injury may occur if material is drawn into the lungs during swallowing, or during vomiting after swallowing.

SECTION 3 COMPOSIT	ION/INFORMATION ON	INGREDIENTS	
CHEMICAL NAME	CAS#	<u>WT. %</u>	OSHA PEL
Cypermethrin cis/trans +/- 40/60	52315-07-8	30.6	N/A
Mineral Oil	64742-55-8	<30	N/A
Aromatic hydrocarbons		<40	N/A

SECTION 4 FIRST AID MEASURES

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 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.

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 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.

NOTE TO PHYSICIAN: Contains aromatic hydrocarbons. Do not induce vomiting due to aspiration hazard; consideration should be given to gastric lavage. Ingestion of a large amount might result in central nervous system stimulation.

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	MATE	ERIAL SAFETY DATA SHE	ET
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SECTION 5	FIF	RE FIGHTING MEASURES	
Flammable Explosive Pro	operties:		
Flash Point: Method: Autoignition Temperature Flammability Limits in Ai Extinguishing Media: Fire/Explosion Hazard: Hazardous Combustion F	r:	50°C / > 122°F Pensky Martin Closed Cup Not available Not established Foam, Carbon dioxide (CO2) Dry cl Combustible material. Heated mate explosive vapors with air. Carbon monoxide, Carbon dioxide of chlorine, hydrogen cyanide.	rial can form flammable and
<u>NFPA</u>	Health: 2	Flammibility: 2	Instability: 0
SECTION 6	ACCIDENTAI	L RELEASE MEASURES	
Personal Precautions: Environmental Precautio Methods for Clean-up:	sources of ignit ns: Keep material of with an absorb appropriate sta and/or hazardo permits Remove all ign	tion. but of lakes, streams, ponds and sew ent such as clay, sand or soil Cons te or local reporting requirements, fo bus waste disposal and other requirer ition sources. Soak up with inert abso	anal protective equipment. Remove all ver drains. Dike to confine spill and absorb ult a regulatory specialist to determine r assistance in waste characterization ments listed in pertinent environmental orbent material (e.g. sand, silica gel, acid shovel into suitable containers for disposal.
SECTION 7	HANDLING A	ND STORAGE	
eyes.	Do not eat, drink or	Iren. Wear personal protective equipr smoke when using this product. Kee ash contaminated clothing before re-	ep away from flames and hot
	e in cool/well-ventilat zers, food or feed c	ted place. Store in an area where cro ould not occur.	ss-contamination with pesticides,
SECTION 8	EXPOSURE C	ONTROLS/PERSONAL PR	OTECTION
Exposure Guidelines			
is PE LA	preferred. Consult A	TORS & WORKERS. THESE WORK	tandard 91 for design of exhaust systems.

Personal Protective Equipment

Eye/face Protection:	Where there is potential for eye contact have eye flushing equipment available. Use eye
	protection to avoid eye contact.
Skin Protection:	Wear protective gloves/clothing. Socks and footwear.
Respiratory Protection:	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment
	appropriate to the material and/or its components. Full face piece equipment is recommended
	and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be
	kept at a minimum with engineering controls, consult respirator manufacturer to determine
	appropriate type equipment for given application. Observe respirator use limitations specified
	by NIOSH or the manufacturer. For emergency and other conditions where there may be a
	potential for significant exposure, use an approved full face positive-pressure, self-contained
	breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

STANDARD 40 CFR PART 170.

General Hygiene Considerations: Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

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SECTION 9	PHYSICAL AND CHEMICAL PR	ROPERTIES	
Appearance:	Yellow	Odor:	Aromatic
Physical State:	Liquid	pH:	4.71
Boiling Point/Range:	Not available	Melting Point/Range	: Not available
Specific Gravity:	0.971	Solubility:	Emulsifies
Evaporation Rate:	Not available	Vapor Pressure:	Not available
Vapor Density:	Not available	VOC Content:	Not available
Viscosity:	Not available	Molecular Weight:	8.095 lb/gal
Bulk Density:	No data available	Percent Solids:	Not available
Percent Volatiles:	Not available		

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Conditions to Avoid:	Heat, flames and sparks
Incompatible Materials:	No materials to be especially mentioned
Hazardous Decomposition Products:	Carbon monoxide. Carbon dioxide (CO2). Hydrogen cyanide.
	Hydrogen chloride. Chlorine.
Dessibility of Henerdous Delymerization.	None under normal processing

Possibility of Hazardous Polymerization: None under normal processing

SECTION 11 TOXICOLOGICAL INFORMATION

Acutetoxicity (Formulation): ACUTE ORAL LD₅₀: ACUTE DERMAL LD₅₀: ACUTE INHALATION LC₅₀: EYE IRRITATION: DERMAL IRRITATION: DERMAL SENSITIZATION:

355 mg/kg >2,000 mg/kg (rabbit) >2.02 mg/L (4 hrs, rat) moderately irritating moderately irritating not a sensitizer

Signs of toxicity in laboratory animals included hypertonicity, ataxia, lethargy, convulsions, gasping, salivation, dyspnea, and alopecia.

Chronic Toxicity & Carcinogenicity

Cypermethrin: In animal studies cypermethrin did not cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice. Cypermethrin caused an increase in benign lung tumors in female mice at 1600 ppm in the diet. The EPA concluded on a weight of evidence approach that cypermethrin represents a low oncogenic potential to female mice at this dose level (approximately 228 mg/kg/day). Liver enlargement is often noted in laboratory animals that have ingested large doses of cypermethrin in their life span. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

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SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Cypermethrin:

Is rapidly degraded in soil with a half life of 2-4 weeks. It is readily hydrolyzed under basic conditions; hydrolysis half-life period can be 20-29 days. Cypermethrin has a high affinity for organic matter and a Log Pow of 5.0; yet, because of the ease with which the material undergoes degradation, it has very low potential for bioconcentration (BCF= 17), and it is not mobile in soil.

Cypermethrin is considered extremely toxic to fish and aquatic arthropods, and has LC50 values which range from 0.004 ug/L to 3.6 ug/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment. Cypermethrin is slightly toxic to birds and oral LD50 values are greater than 10,248 mg/kg.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.

Contaminated Packaging:

Non refillable container. Do not reuse this container.

(For containers less than 5 gallons). Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(For containers larger than 5 gallons). Clean container promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14	TRANSPORT INFORMATION
DOT	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. When shipped in bulk, by vessel, or internationally use the following shipping description:
Proper Shipping Name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class	3
UN-No	UN1993
Packing Group	PG III
Marine pollutant	Y (Cypermethrin)
ICAO	
UN-No	UN1993
Proper Shipping Na	ame Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class	3
Packing Group	111
Description	Marine pollutant (Cypermethrin)

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SECTION 14	Т	TRANSPORT INFORMA	ATION (cont)
IATA UN-No Proper Shipping Name Hazard Class Packing Group ERG Code Description	3 PG III 3L	quid, n.o.s (aromatic hydrocarbo ant (Cypermethrin)	on)
IMDG/IMO Proper Shipping Name Hazard Class UN-No Packing Group EmS No. Special Provisions Marine Pollutant	3 UN1993 PG III F-E, S-E 223, 274, 330 This product c		ed as a severe marine pollutant according

SECTION 15 REGULATORY INFORMATION

International Inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS/ELINCS	ENCS	<u>CHINA</u>	KECL	AICS
Cypermethrin cis/trans				Х		Х	96-36;	Х
+/- 40/60							97-1-243;	
							KE-05-0375	
Mineral oil	Present	Х		Х	(9)-1692	Х	KE-12553	Х
Aromatic hydrocarbons	Present	Х		Х	(9)-1698	Х	KE-31662	Х

<u>USA</u>

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

<u>Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)</u> This product does not contain any HAPs.

CERCLA

<u>RCRA</u>

Pesticide Information

Component	FIFRA Restricted Use	FIFRA - Pesticide Product Other	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Cypermethrin cis/trans +/-		Ingredients	x	
40/60			X	
Aromatic hydrocarbons			Х	
(<40)				

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State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name N Cypermethrin cis/trans +/- 40/60	Massachusetts Listed.	New Jersey	Pennsylvania	Illinois	Rhode Island
<i>l</i> ineral oil	Listed.				

International Regulations

Mexico - Grade

Not available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

SECTION 16 OTHER INFORMATION

Revision Date

20-Nov-2012

Revision Summary

Update section 13; Update section 8; Update section 2

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