

Novella Brands Inc
120 Midair Court
Brampton, Ontario, L6T 5V1
Canada
905-790-0636

PRODUCT: Kombat 12 Hours Mosquito Repellent Spray - 200g (REG. 32130)

CODE: P3-090431

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity..... Kombat 12 Hours Mosquito Repellent Spray - 200g (REG. 32130)
Product Item Numbers..... P3-090431
Manufacturer..... Empack Spraytech Inc.
98 Walker Drive
Brampton
Ontario
Canada
L6T 4H6
905-792-6571
24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.
Recommended Use..... Insect Repellent.
Consumer Commodity..... Yes.
Hazard Ratings:
HMIS..... Health: 1 Fire: 1 Reactivity: 0.
NFPA Rating..... Health: 1 Fire: 1 Reactivity: 0.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Contents under pressure. Flammable liquid and vapour. Product vapor and mist can be irritating to eyes and inhalation system. Product can be harmful if swallowed. May cause drying of skin. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:
Eye Contact..... May cause irritation, redness and pain.
Skin Contact Not expected to cause skin irritation. If irritation persists, stop using the product and consult physician.
Ingestion..... Ingestion is not a likely route of exposure. If it occurs, do not induce vomiting. Drink enough water to dilute.
Inhalation..... Avoid breathing mist, may cause respiratory tract irritation. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Ethyl alcohol	64-17-5	10-30
Polypropylene glycol	25322-68-3	10-30
ICaridin (1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)-, 1-methylpropylester)	119515-38-7	20
Fragrance	mix	0.1-1

SECTION 04: FIRST AID MEASURES

Eye Contact..... Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.
Skin Contact..... This product is formulated for use on the skin, but should always be immediately rinsed off with plenty of water. Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Consult a poison control centre or physician immediately.
Ingestion..... Immediately call a poison control centre or physician. Do not induce vomiting unless told to do so by a poison control centre or physician. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.
Additional Information..... Treat symptomatically and supportively.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Flammable.
General Information..... As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Vapours may be heavier than air. They can spread along the ground and collect in low or confined areas.

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SECTION 05: FIRE FIGHTING MEASURES

Extinguishing Media..... In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Hazardous Combustion Products..... Under fire conditions this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide and nitrogen oxides.

SECTION 06: ACCIDENTAL RELEASE MEASURES

General Information..... Use proper personal protective equipment as indicated in Section 8.

Spills and Leaks..... Large spills are not expected in aerosol spray. However, if occurred through manufacturing process, absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. A vapour suppressing foam may be used to reduce vapours.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Avoid contact with eyes. Avoid ingestion and inhalation. Wash thoroughly after handling . Empty containers retain product residue, liquid and/or vapour, it can be dangerous. Use in well ventilated area. Avoid contact with heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Conditions for Safe Storage including any ... Container is under pressure. Keep away from heat, sparks, and flame. Keep away from incompatibilities Incompatibilities substances.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Ethyl alcohol	Not established	1,000 ppm (15 minutes)	1,000 ppm	Not established	1,000 ppm	
Polypropylene glycol	1.01 g/m3	Not established	Not established	Not established	Not established	Not established
ICaridin (1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)-, 1-methylpropylester)	Not available	Not available	Not available	Not available	Not available	Not available
Fragrance	Not available	Not available	Not available	Not available	Not available	Not available
Clothing/Type	No special equipment is necessary for this product.					
Eye/Face Protection.....	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910. 133 or European Standard EN166.					
Footwear/Type.....	No special equipment is necessary for this product.					
Gloves/Type.....	Wear gloves when prolong skin contact is expected.					
Other/Type.....	Not required.					
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.					
Exposure Limits						

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Aerosol spray mist.

Physical Appearance..... Colorless liquid .

Odour..... Fragrance.

Odour Threshold (ppm)..... Not available.

Internal can pressure @ 21° C..... 90-100 psig.

Specific Gravity (Liquid)..... 0.970-0.980.

Viscosity..... Not applicable.

Vapour Density (Air=1)..... Not available.

Evaporation Rate (n-Butyl Acetate = 1)..... > 1 .

pH..... 7.0- 8.0.

Initial Boiling Point/Boiling Range (°C)..... 78.5.

Melting/Freezing Point (°C)..... < 0.

Solubility in water..... Slightly miscible in water.

Aerosol Flame Projection..... > 45 cm but < 100 cm.

Flashback..... No.

Flash Point (°C), Method..... Closed cup. 15.

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Auto Ignition Temperature (Propellant), °C... Not applicable.
 Coefficient of Water/Oil Distribution..... N/A.
 Lower Flammable Limit (% Vol)..... 3.3 .
 Upper Flammable Limit (% Vol)..... 19.0 .

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability..... The product is stable under normal condition of use.
 Conditions to Avoid..... Excessive heat, ignition sources, and oxidizing materials.
 Incompatible Materials..... Strong Oxidizers.
 Hazardous Decomposition Products..... Carbon monoxide, carbon dioxide, and nitrogen oxides.
 Possibility of Hazardous Reactions..... Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Ethyl alcohol	39 mg/L (Mouse - 4hrs)	7,060 mg/kg (Oral - Rat); 20,000 mg/kg (Dermal - Rabbit)
Polypropylene glycol	Not available	21,000-33,700 mg/kg (Oral - Rat); 28,000 mg/kg (Dermal - Rabbit)
ICaridin (1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)-, 1-methylpropylester)	>4.364 mg/L (Rat - 4hrs)	2,236 mg/kg (Oral - Rat); >2,000 mg/kg (Dermal - Rat)
Fragrance	No data available	No data available
Route of Exposure.....	Skin contact, Eye contact, Inhalation and Ingestion.	
Effects of Acute Exposure.....	May cause dermatitis, irritation to eyes, dizziness, and vomiting.	
Chronic Effects.....	Avoid inhalation of product mist. Use in well ventilated conditions.	
Carcinogenicity.....	Not Classifiable as a Human Carcinogen.	
Reproductive Effects.....	No information is available, and no adverse effects are expected.	
Teratogenicity.....	No information is available, and no adverse effects are expected.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Toxicological Data		
Oral LD50-rat (Mixture, calculated):.....	7.29 g/kg.	
Dermal LD50-rabbit (Mixture, calculated):.....	15.5 g/kg.	
Inhalation LC50-rat 4hrs (Mixture, calculated):	18.8 mg/L.	

SECTION 12: ECOLOGICAL INFORMATION

Data from Toxicity Tests..... Not available .
 Environmental..... Liquid release is only expected to cause localized, non-persistent environmental damage, such as cooling/drying.
 Ecotoxicity..... Harmful to aquatic organisms, may cause long-term adverse effects in the environment.
 Bioaccumulation Potential..... Not available.
 Other Adverse Effects..... No data available.
 Absorption Potential..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... Dispose in accordance with local, provincial and federal regulations.
 Other Special Cautions..... None required .

SECTION 14: TRANSPORT INFORMATION

UN Proper Name..... AEROSOLS.
 UN Number..... 1950.
 Transport Hazard Classification..... 2.1.
 Packaging Group (if applicable) Not applicable.
 Limited Quantity..... None known.
 Guidance on air shipments..... None known.
 Guidance for marine shipments..... None known.
 Any Special Precautions..... None.

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SECTION 15: REGULATORY INFORMATION

Canada Regulations:.....	WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D2B: Material causing other toxic Materials.
US Regulations.....	Environmental Protection Act: Constituents of this product are included on the TSCA inventory. HMIS: 1 Health, 1 Fire, 0 Reactivity,.

SECTION 16: OTHER INFORMATION

Disclaimer..... This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. THIS SDS IS VALID FOR THREE YEARS. The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material.

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