CRC.

SAFETY DATA SHEET

1. Identification

Product identifier FR Clothing Insect Repellent

Other means of identification

Product code 14036

Registration number EPA: 1021-1746-55809

Recommended use Insecticide for controlling mosquitos and ticks

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information 215-674-4300 **Technical** 800-521-3168

Assistance

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazardsGases under pressureLiquefied gas

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B Sensitization, skin Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic

skin reaction. Causes eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

Precautionary statement

Prevention Do not puncture or incinerate container. Do not expose to heat or store at temperatures above

49°C/120°F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Avoid breathing gas. Wash thoroughly after handling. Avoid release to the environment. Wear protective

gloves.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. 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 attention. Wash contaminated

clothing before reuse. Collect spillage.

Material name: FR Clothing Insect Repellent

SDS US

Storage Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause

can to burst.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

10.2% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 10.2% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures				
Chemical name	Common name and synonyms	CAS number	%	
Water		7732-18-5	80 - 90	
Liquefied petroleum gas		68476-86-8	10 - 20	
Distillates (petroleum), hydrotreated light		64742-47-8	5 - 10	
Permethrin		52645-53-1	0.5	

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Skin contact	Wash off with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not give any liquid to the person.
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures	
Suitable extinguishing media	Foam. Dry chemicals. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Absorb spillage with non-combustible, absorbent material. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with skin and eyes. Use only in well-ventilated areas. Wear appropriate personal protective equipment. For product usage instructions, please see the product label. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from food or pet food. Always store pesticides in the original container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. NIOSH: Pocket Guide to Chemical Hazards
Components Type Value

Distillates (petroleum), TWA 100 mg/m3
hydrotreated light (CAS 64742-47-8)

No biological exposure limits noted for the ingredient(s).

Biological limit values

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not eat, drink or smoke when using the product.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Aerosol.

Color Milky white.

Odor Petroleum distillates.

Odor threshold Not available.

Material name: FR Clothing Insect Repellent

6.8 pН

Melting point/freezing point 32 °F (0 °C) estimated 212 °F (100 °C) estimated Initial boiling point and boiling

range

None Flash point

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)

Vapor pressure 501.6 hPa estimated

Vapor density > 1 (air = 1)0.98 Relative density

Solubility (water) Partially miscible. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature**

Viscosity (kinematic) 4.5 cP (73.4 °F (23 °C)) Percent volatile 96.2 % estimated

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Strong acids. Strong oxidizing agents. Strong bases. Incompatible materials **Hazardous decomposition** No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Dermatitis. Rash. May cause redness and pain. May cause an allergic skin reaction. Exposed

individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

May cause an allergic skin reaction. **Acute toxicity**

Product Species		Test Results	
FR Clothing Insect Repeller	nt		
Acute			
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Inhalation			
LC50	Rat	> 20 mg/l, 4 hours	

Material name: FR Clothing Insect Repellent

SDS US

2423 Version #: 03 Revision date: 03-27-2014 Issue date: 03-27-2014

Product Species Test Results

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Permethrin (CAS 52645-53-1) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Specific target organ toxicity -

Not available.

Not available.

single exposure

Specific target organ toxicity -

Not available.

repeated exposure
Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Accumulation in aquatic

organisms is expected.

Product		Species	Test Results
FR Clothing Insect Re	epellent		
Aquatic			
Crustacea	EC50	Daphnia	5.0529 mg/l, 48 hours estimated
Fish	LC50	Fish	4.9393 mg/l, 96 hours estimated
Components		Species	Test Results

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 45 mg/l, 96 hours

Permethrin (CAS 52645-53-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.0006 - 0.0025 mg/l, 48 hours
Fish LC50 Apache trout (Oncorhynchus gilae apache) 0.0013 - 0.0022 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Permethrin 6.5

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Material name: FR Clothing Insect Repellent

^{*} Estimates for product may be based on additional component data not shown.

^{*} Estimates for product may be based on additional component data not shown.

13. Disposal considerations

Disposal of waste from residues / unused products

The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). If empty: Place in trash or offer for recycling this container. If partly filled: Call your local solid waste agency for disposal instructions. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

UN1950 **UN number**

UN proper shipping name

Transport hazard class(es)

Class 2.2 Subsidiary risk 2.2 Label(s)

Not applicable. Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Aerosols, non-flammable, Limited Quantity

Packaging exceptions 306 Packaging non bulk None Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, non-flammable, Limited Quantity

Allowed.

Transport hazard class(es)

Class 2.2 Subsidiary risk

Packing group Not applicable.

Environmental hazards No. **ERG Code** 2L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed. Cargo aircraft only

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT

Transport hazard class(es)

2 Class Subsidiary risk

Not applicable. Packing group

Environmental hazards

Marine pollutant Yes

Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

2423 Version #: 03 Revision date: 03-27-2014 Issue date: 03-27-2014

Not regulated.

SARA 304 Emergency release notification

Not regulated.

Material name: FR Clothing Insect Repellent

SDS US

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

FIFRA Information 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.

Signal word Caution.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - No

Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

Permethrin (CAS 52645-53-1)

US. Massachusetts RTK - Substance List

None.

US. Pennsylvania Worker and Community Right-to-Know Law

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

US. Rhode Island RTK

None.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes

Country(s) or region Inventory name On inventory (yes/no)*

New Zealand New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

03-27-2014 Issue date 03-27-2014 **Revision date** Prepared by Allison Cho

Version # 03

Further information Not available. **HMIS®** ratings Health: 2 Flammability: 1 Physical hazard: 0

Personal protection: B

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Disclaimer The information contained in this document applies to this specific material as supplied. It may not

> be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries.

Physical & Chemical Properties: Multiple Properties **Revision Information**

Toxicological Information: Toxicological Property Data

Regulatory Information: United States

GHS: Classification

2423 Version #: 03 Revision date: 03-27-2014 Issue date: 03-27-2014