



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ULTRATHON (tm) INSECT REPELLENT (lotion)
MANUFACTURER: 3M
DIVISION: New Business Ventures

ADDRESS: 3M Center
 St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

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Product Use:

Intended Use: FOR REPELLING MOSQUITOS AND OTHER BITING INSECTS

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
ETHOXYLATED MONO AND DIGLYCERIDES OF HYDROGENATED PALM OIL	***** Missing Data *****	1 - 5
WATER	7732-18-5	40 - 50
N,N-DIETHYL M-TOLUAMIDE	134-62-3	20 - 40
ACRYLIC ACID, ISOCTYLACRYLATE AND EICOSYL-, HEXADECYL-, AND OCTADECYL METHACRYLATE COPOLYMER	Trade Secret	5 - 10
PROPYLENE GLYCOL DICAPRYLATE-CAPRATE	68583-51-7	1 - 5
POLYETHYLENE GLYCOL GLYCERYL ETHER	31694-55-0	1 - 5
POLYOXYPROPYLENE STEARYL ETHER	25231-21-4	1 - 5
ALCOHOLS, C14-18	67762-30-5	1 - 5
TALLOW MONO- AND DI-, HYDROGENATED, ETHOXYLATED GLYCERIDES	68553-11-7	1 - 5
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	112945-52-5	1 - 5
C14-18 MONO- AND DIGLYCERIDES	67701-33-1	1 - 5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Viscous Lotion

Odor, Color, Grade: White with DEET odor.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: May cause severe eye irritation.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Skin Contact:

Prolonged or repeated exposure may cause:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

No health effects are expected.

Ingestion:

Ingestion may cause:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

Carcinogenicity:

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
ARSENIC COMPOUNDS	NONE	Group 1	International Agency for Research on Cancer
BERYLLIUM COMPOUNDS	NONE	Group 1	International Agency for Research on Cancer
BERYLLIUM COMPOUNDS	NONE	Known human carcinogen	National Toxicology Program Carcinogens
CADMIUM COMPOUNDS	NONE	Group 1	International Agency for Research on Cancer
CADMIUM COMPOUNDS	NONE	Known human carcinogen	National Toxicology Program Carcinogens
CADMIUM COMPOUNDS	NONE	Cancer hazard	OSHA Carcinogens
CHROMIUM (HEXAVALENT COMPOUNDS)	NONE	Group 1	International Agency for Research on Cancer
COBALT COMPOUNDS	NONE	Group 2B	International Agency for Research on Cancer
LEAD COMPOUNDS	NONE	Anticipated human carcinogen	National Toxicology Program Carcinogens
NICKEL ALLOYS	NONE	Group 2B	International Agency for Research on Cancer

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: No need for first aid is anticipated.

If Swallowed: Do not induce vomiting. If signs/symptoms develop, get medical attention.

4.2 NOTE TO PHYSICIANS

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	No Data Available
Flash Point	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable

5.2 EXTINGUISHING MEDIA

Non-combustible. Choose material suitable for surrounding fire.

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Keep out of the reach of children. Wash hands thoroughly with soap and water after applying product.

7.2 STORAGE

Store under normal warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Gloves are not required. Do not use on synthetic fabrics, plastics, watch crystals, leather, painted, or varnished surfaces. After returning indoors, wash treated skin with soap and water. Wash treated clothing.

If irritation occurs, discontinue use.

8.2.3 Respiratory Protection

Not applicable.

8.2.4 Prevention of Swallowing

Wash hands thoroughly with soap and water after applying product.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ALUMINUM PYRO POWDERS	ACGIH	TWA, as Al	5 mg/m3	
ALUMINUM PYRO POWDERS	OSHA	TWA, as Al	5 mg/m3	Table Z-1A
ANTIMONY COMPOUNDS	ACGIH	TWA, as Sb	0.5 mg/m3	
ANTIMONY COMPOUNDS	OSHA	TWA, as Sb	0.5 mg/m3	Table Z-1A
BERYLLIUM COMPOUNDS	ACGIH	TWA, as Be	0.002 mg/m3	Table A1
BERYLLIUM COMPOUNDS	ACGIH	STEL, as Be	0.01 mg/m3	Table A1
BERYLLIUM COMPOUNDS	OSHA	TWA, as Be	0.002 mg/m3	Table Z-2
BERYLLIUM COMPOUNDS	OSHA	CEIL, as Be	0.005 mg/m3	Table Z-2
BERYLLIUM COMPOUNDS	OSHA	STEL, Vacated, as Be	0.005 mg/m3	
BERYLLIUM COMPOUNDS	OSHA	CEIL, Vacated, as Be	0.025 mg/m3	
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd, respirable	0.002 mg/m3	Table A2
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd dust/particle	0.01 mg/m3	Table A2
CADMIUM DUST	OSHA	TWA, as dust	0.2 mg/m3	Table Z-2
CADMIUM DUST	OSHA	CEIL, as dust	0.6 mg/m3	Table Z-2
CHROMIUM (VI), CERTAIN WATER INSOLUBLE COMPOUNDS	ACGIH	TWA, as Cr	0.01 mg/m3	Table A1

COBALT COMPOUNDS	ACGIH	TWA, as Co	0.02 mg/m3	Table A3
COPPER COMPOUNDS	ACGIH	TWA, as Cu dust or mist	1 mg/m3	
COPPER COMPOUNDS	OSHA	TWA, as dust or mist	1 mg/m3	Table Z-1A
MANGANESE COMPOUNDS	OSHA	CEIL, as Mn	5 mg/m3	Table Z-1A
MANGANESE, INORGANIC COMPOUNDS	ACGIH	TWA, as Mn	0.2 mg/m3	
MERCURY NON-ALKYL, VAPOR	ACGIH	TWA, as Hg	0.05 mg/m3	Skin Notation*
MERCURY NON-ALKYL, VAPOR	OSHA	TWA, as Hg	0.05 mg/m3	Skin Notation*; Table Z-1A
MERCURY, ARYL & INORGANIC COMPOUNDS	OSHA	CEIL, as Hg	0.1 mg/m3	Skin Notation*; Table Z-1A
MERCURY, INORGANIC COMPOUNDS	ACGIH	TWA, as Hg	0.025 mg/m3	Skin Notation*; Table A4
MOLYBDENUM, INSOLUBLE COMPOUNDS	ACGIH	TWA, respirable	3 mg/m3	
MOLYBDENUM, INSOLUBLE COMPOUNDS	ACGIH	TWA, as Mo, inhalable fraction	10 mg/m3	
MOLYBDENUM, INSOLUBLE COMPOUNDS	OSHA	TWA, as Mo	10 mg/m3	Table Z-1A
POLYETHYLENE GLYCOLS	AIHA	TWA, as aerosol	10 mg/m3	
SELENIUM COMPOUNDS	ACGIH	TWA, as Se	0.2 mg/m3	
SELENIUM COMPOUNDS	OSHA	TWA, as Se	0.2 mg/m3	Table Z-1
TIN, INORGANIC COMPOUNDS, EXCEPT OXIDES	OSHA	TWA, as Sn	2 mg/m3	Table Z-1
TIN, INORGANIC COMPOUNDS, EXCEPT SnH4	ACGIH	TWA, as Sn	2 mg/m3	
ZIRCONIUM COMPOUNDS	ACGIH	TWA, as Zr	5 mg/m3	Table A4
ZIRCONIUM COMPOUNDS	ACGIH	STEL, as Zr	10 mg/m3	Table A4
ZIRCONIUM COMPOUNDS	OSHA	TWA, as Zr	5 mg/m3	Table Z-1A
ZIRCONIUM COMPOUNDS	OSHA	STEL, as Zr	10 mg/m3	Table Z-1A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Viscous Lotion
Odor, Color, Grade:	White with DEET odor.
General Physical Form:	Liquid
Autoignition temperature	<i>No Data Available</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
Boiling point	>=95 °C [<i>Details:</i> Product is 40% water with no VOC]
Density	0.995 - 1.035 g/ml
Vapor Density	<i>Not Applicable</i>
Vapor Pressure	0.3 psia [<i>@ 68 °F</i>] [<i>Details:</i> NOTOX value on DEET = 1.69x10 ⁻⁸ atm.m3/mol.]
Specific Gravity	0.995 - 1.035 [<i>Ref Std:</i> WATER=1]
Melting point	<i>No Data Available</i>
Solubility In Water	<i>Not Applicable</i>
Solubility in Water	Negligible
Evaporation rate	<i>No Data Available</i>
Hazardous Air Pollutants	0
Volatile Organic Compounds	Approximately 0.19 g/l
Percent volatile	>=44.00 % weight
VOC Less H2O & Exempt Solvents	Approximately 0.38 g/l
Viscosity	150000 - 300,000 centipoise [<i>Test Method:</i> ASTM METHOD]

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Product-Based Toxicology Information:

Use of this product may cause skin reactions in rare cases.

Component-Based Toxicology Information:

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a permitted hazardous waste facility.
Dispose of empty product containers in a sanitary landfill.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

44-0051-7325-5, 70-0711-7347-3, 70-0711-7696-3, 70-1000-0005-1, 70-1000-0044-0, 70-1000-0056-4, 70-1000-0117-4, 70-1000-0132-3, 70-1000-0134-9, 70-1000-0136-4, 70-1000-0137-2, 70-1000-0138-0, 70-1000-0139-8, 70-1000-0140-6, 70-1000-0141-4, 70-1000-0142-2, 70-1000-7054-2, 70-1000-7097-1, 70-1000-7404-9, 70-1000-7875-0, 70-1000-7899-0, 70-1000-7907-1, 70-1000-8095-4, 70-1000-8287-7, 70-1000-8900-5, 70-1000-8901-3, 70-1000-9881-6, 70-1000-9888-1, 70-1000-9889-9, 70-1000-9996-2, 70-2007-2649-8

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

FIFRA

Status

Registered

Registration Number

58007-1

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
BERYLLIUM COMPOUNDS	NONE	**Carcinogen
CADMIUM COMPOUNDS	NONE	*Male reproductive toxin
CADMIUM COMPOUNDS	NONE	**Carcinogen
CADMIUM COMPOUNDS	NONE	*Developmental Toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	NONE	*Female reproductive toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	NONE	*Male reproductive toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	NONE	**Carcinogen
CHROMIUM (HEXAVALENT COMPOUNDS)	NONE	*Developmental Toxin
LEAD COMPOUNDS	NONE	*Female reproductive toxin
LEAD COMPOUNDS	NONE	*Male reproductive toxin
LEAD COMPOUNDS	NONE	**Carcinogen
LEAD COMPOUNDS	NONE	*Developmental Toxin
MERCURY COMPOUNDS	NONE	*Developmental Toxin
NICKEL COMPOUNDS	NONE	**Carcinogen

* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

** WARNING: contains a chemical which can cause cancer.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 0 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes: Not Applicable

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