

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

PRODUCT USE

» MSDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.

Sunscreen with insect repellent.

Not suitable for babies and toddlers.

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HAZARD

Not hazardous

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS RN	%
Insect repellent, as		<10
N, N-diethyl-m-toluamide	134-62-3	

NOTE: Manufacturer has supplied full ingredient

Information to allow CHEMWATCH assessment.

SECTION 4: FIRST AID MEASURES

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766) NZ
EMERGENCY SERVICES: 111

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

SWALLOWED

- » If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

EYE

- » If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- » Not considered an irritant through normal use.

Wipe off excess with absorbent tissue or towel.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

NOTES TO PHYSICIAN

- » Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.

FIRE FIGHTING

- Use fire fighting procedures suitable for surrounding area.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

FIRE/EXPLOSION HAZARD

- The material is not readily combustible under normal conditions.
- However, it will break down under fire conditions and the organic component may burn.
- Not considered to be a significant fire risk.
- Heat may cause expansion or decomposition with violent rupture of containers.
- Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.

FIRE INCOMPATIBILITY

- Avoid reaction with oxidising agents.

PERSONAL PROTECTION

Glasses:

Not normally required.

Gloves:

When handling larger quantities:

General purpose rubber glove.

Respirator:

Type A-P Filter of sufficient capacity

SECTION 6" ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

» Slippery when spilt.

Clean up all spills immediately.

Wipe up.

Place in clean drum then flush area with water.

MAJOR SPILLS

» Slippery when spilt. Minor hazard.

- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact by using protective equipment as required.
- Prevent spillage from entering drains or water ways.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- Wash area and prevent runoff into drains or waterways.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

SECTION 7: HANDLING AND STORAGE

PROCEDURE FOR HANDLING

» No special handling procedures required.
Use good occupational work practice.

SUITABLE CONTAINER

» Plastic container.

STORAGE INCOMPATIBILITY

» Avoid storage with oxidisers.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations. Store below 30 deg. C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

- N, N-diethyl-m-toluamide:

CAS:134-62-3

MATERIAL DATA

» Not available. Refer to individual constituents.

INGREDIENT DATA

N,N-DIETHYL-M-TOLUAMIDE:

» Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA OSHA (USA) concluded that exposure to sensory irritants can:

- cause inflammation
- cause increased susceptibility to other irritants and infectious agents
- lead to permanent injury or dysfunction
- permit greater absorption of hazardous substances and
- acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

PERSONAL PROTECTION

EYE

- » No special equipment for minor exposure i.e. when handling small quantities.
- OTHERWISE:
 - Safety glasses with side shields.
 - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation -lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

- » No special equipment needed when handling small quantities.

OTHERWISE: Wear general protective gloves, eg. light weight rubber gloves.

OTHER

- » None under normal operating conditions.

RESPIRATOR

- » Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

Breathing Zone Level ppm (volume)	Maximum Protection Factor	Half-face Respirator	Full-Face Respirator
1000	10	A-AUS P	-
1000	50	-	A-AUS P
5000	50	Airline *	-
5000	100	-	A-2 P
10000	100	-	A-3 P
	100 +		Airline**

* -Continuous Flow

** -Continuous-flow or positive pressure demand.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

» None under normal operating conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Lotion; does not mix with water.

PHYSICAL PROPERTIES

Liquid.

Does not mix with water.

Molecular Weight: Not Applicable
Melting Range (°C): Not Available
Solubility in water (g/L): Immiscible
pH (1% solution): Not Available
Volatile Component (%vol): Not Available
Relative Vapour Density (air=1): Not Available
Lower Explosive Limit (%): Not Applicable
Upper Explosive Limit (%): Not Applicable
Autoignition Temp (°C): Not Applicable
State: Liquid

Boiling Range (°C): Not Available
Specific Gravity (water=1): Not Available
pH (as supplied): Not Available
Vapour Pressure (kPa): Not Available
Evaporation Rate: Not Available
Flash Point (°C): Not Applicable
Explosive Limit (%): Not Applicable
Decomposition Temp (°C): Not Available
Viscosity: Not Available

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

Material	Value
N, N-DIETHYL-M-TOLUAMIDE: log Kow	1.3-3.31

SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
 - Product is considered stable.
 - Hazardous polymerisation will not occur.
- For incompatible materials -refer to Section 7 -Handling and Storage.*

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

- » Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
- » Considered an unlikely route of entry in commercial/industrial environments.
- » Ingestion may result in nausea, abdominal irritation, pain and vomiting.

EYE

- » Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
- » The liquid may produce eye discomfort causing smarting, pain and redness.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

SKIN

- » The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
- » Not considered an irritant through normal use.
- » Irritation and skin reactions are possible with sensitive skin.

INHALED

» The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

- » Not normally a hazard due to non-volatile nature of product.

CHRONIC HEALTH EFFECTS

Principal routes of exposure are usually by skin contact and eye contact.
The product is considered to be non-harmful by all exposure routes when used in accordance with directions.
Avoid lip area.

TOXICITY AND IRRITATION

- » Not available. Refer to individual constituents.

SECTION 12: ECOLOGICAL INFORMATION

Refer to data for ingredients, which follows:

N,N-DIETHYL-M-TOLUAMIDE:

- » Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - » Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.
- log Kow: 1.3-3.31
Toxicity Fish: LC50(96)8.93-12.44mg/L
Toxicity invertebrate: LC50(96)9.54mg/L

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
NZ Cancer Society Insect Repellant SPF30+		No data		
N, N-diethyl- m-toluamide		No data	LOW	HIGH

SECTION 13: DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14: TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

SECTION 15: REGULATORY INFORMATION

NOTES

NZ Group Standard No. HSR002552 (Cosmetic Products 2006)

REGULATIONS

NZ Cancer Society Insect Repellant SPF30+ (CAS: None):
No regulations applicable

Regulations for ingredients

N,N-diethyl-m-toluamide (CAS: 134-62-3) is found on the following regulatory lists;
New Zealand Hazardous Substances and New Organisms (HSNO) Act -Chemicals (single components)
New Zealand Hazardous Substances and New Organisms (HSNO) Act -Classification of Chemicals
New Zealand Hazardous Substances and New Organisms (HSNO) Act -Classification of Chemicals -Classification

Data

New Zealand Hazardous Substances and New Organisms (HSNO) Act -Hazardous Substances Register
New Zealand Hazardous Substances and New Organisms (HSNO) Act -Veterinary Medicines
New Zealand Inventory of Chemicals (NZIoC)
OECD Representative List of High Production Volume (HPV) Chemicals

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUNSCREEN w INSECT REPELLENT SPF30+ / 2 HOURS WATER RESISTANT

Specific advice on controls required for materials used in New Zealand can be found at <http://www.ermanz.govt.nz/search/registers.html>

SECTION 16: OTHER INFORMATION

NEW ZEALAND POISONS INFORMATION CENTRE

0800 POISON (0800 764 766)

NZ EMERGENCY SERVICES: 111

» Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

» The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.