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SAFETY DATA SHEET

Product Code: AEROTS150

SECTION 1 PRODUCT IDENTIFICATION

Product name Aerogard Tropical Strength Insect Repellent Aerosol

Material uses Personal Insect Repellent

Product use Consumer

SECTION 2 HAZARD IDENTIFICATION

Classification of the substance or mixture
- FLAMMABLE AEROSOLS - Category 1
- GASES UNDER PRESSURE - Compressed gas
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

GHS label elements
- **Signal word :** DANGER
- **Hazard statements :** Extremely flammable aerosol.
  Contains gas under pressure; may explode if heated.
  Causes serious eye irritation.

Hazard pictograms :

Flame Gas Cylinder Exclamation Mark

Precautionary statements
- **General :** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- **Prevention :** Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Wash hands thoroughly after handling.
- **Response** : 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.
- **Storage** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
- **Disposal:** Not applicable.

Supplemental label elements Not applicable.

Other hazards which do not result in classification None known.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Ingredients	CAS Number
Butane	106-97-8
Ethyl alcohol	64-17-5
N,N-diethyl-m-toluamide	134-62-3
propane	74-98-6

Supplier's information : Product Contains less than 0,1% w/w 1, 3 Butadiene

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Other Non-hazardous ingredients to 100%

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

- **Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- **Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- **Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- **Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- **Eye contact** Causes serious eye irritation.
- **Skin contact** No known significant effects or critical hazards.
- **Inhalation** No known significant effects or critical hazards.
- **Ingestion** No known significant effects or critical hazards.

Over-exposure signs/symptoms

- **Eye contact** Adverse symptoms may include the following: pain or irritation, watering redness
- **Skin contact** No specific data.
- **Inhalation** Adverse symptoms may include the following: respiratory tract irritation coughing.
- **Ingestion** No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- **Notes to physician :** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- **Specific treatments :** No specific treatment.
- **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

See toxicological information (Section 11)

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

- **Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.
- **Unsuitable extinguishing media** None known.

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Specific hazards arising from the chemical	Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard
Hazardous thermal decomposition products	Decomposition products may include the following materials: • carbon dioxide • carbon monoxide • nitrogen oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	• **For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator • **For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for containment and cleaning up	• **Small Spill** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. • **Large spill** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

- **Protective measures** Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
- **Advice on general occupational hygiene** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Do not store above the following temperature

50°C

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Australia

Occupational exposure limits

Ingredient	Exposure limits
Butane	**Safe Work Australia (Australia, 1/2014).** TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours.
Ethyl alcohol	**Safe Work Australia (Australia, 1/2014).** TWA: 1880 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
propane	**TRGS900 AGW (Germany, 12/2014).** TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes.

New Zealand

Ingredient	Exposure limits
Butane	**NZ OSH (New Zealand, 2/2013).** WES-TWA: 800 ppm 8 hours. WES-TWA: 1900 mg/m³ 8 hours.
ethanol	**NZ OSH (New Zealand, 2/2013).** WES-TWA: 1000 ppm 8 hours. WES-TWA: 1880 mg/m³ 8 hours.

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Appropriate Engineering Controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual Protection Measures	• **Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. • **Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin Protection	• **Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. • **Body protection** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. • **Other skin protection** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product
Respiratory Protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance	• **Physical state** Liquid. [Fine, mist] • **Colour** Not available.
Odour	Floral.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Closed cup: -60°C (-76°F) [Butane]
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

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Lower and upper explosive (flammable) limits	Not available.
Vapour pressure	240 kPa (1800.1 mm Hg) [room temperature]
Vapour density	2.046 [Air = 1]
Relative density	Not available.
Solubility	Not available.
Solubility in water	Not available.
Partition coefficient: noctanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	• **Type of aerosol** Spray • **Heat of combustion** 37.38 kJ/g

SECTION 10 STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapour	Rat	658000 mg/m³	4 hours
Ethyl alcohol	LC50 Inhalation Vapour	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/kg	-
N,N-diethyl-m-toluamide	LC50 Inhalation Vapour	Rat	>5.95 mg/l	4 hours
	LD50 Dermal	Rabbit	3180 mg/kg	-
		Rat	5 g/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
		Rat	1892 mg/kg	-

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

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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl alcohol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
	Eyes - Mild irritant		-	24 hours 500 milligrams	-
	Eyes - Moderate irritant		-	100 microli-ters	-
	Eyes - Severe irritant		-	500 milligrams	-
	Skin - Mild irritant		-	400 milligrams	-
	Skin - Moderate irritant		-	24 hours 20 milligrams	-
N,N-diethyl-m-toluamide	Skin - Irritant		-	-	-
	Eyes - Irritant		-	-	-
	Eyes - Moderate irritant		-	10 milligrams	-
	Skin - Moderate irritant		-	500 milli-grams	-

Conclusion/Summary

- **Skin :** Non-irritant to skin. Information is based on toxicity test result of a similar product.
- **Eyes** : Based on Calculation method: Causes serious eye irritation.
- **Respiratory :** Based on available data, the classification criteria are not met

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
N,N-diethyl-m-toluamide	skin	Mammal - species unspecified	Not sensitizing

Conclusion/Summary

- **Skin :** Based on available data, the classification criteria are not met.
- **Respiratory** : Based on available data, the classification criteria are not met.

Mutagenicity

Not available.

- **Conclusion/Summary** Based on available data, the classification criteria are not met

Reproductive toxicity

Not available.

- **Conclusion/Summary** Based on available data, the classification criteria are not met

Teratogenicity

Not available.

- **Conclusion/Summary** Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

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Potential acute health effects

- **Eye contact** Causes serious eye irritation.
- **Inhalation** No known significant effects or critical hazards.
- **Skin contact** No known significant effects or critical hazards.
- **Ingestion** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- **Eye contact** Adverse symptoms may include the following: pain or irritation, watering redness
- **Inhalation** Adverse symptoms may include the following: respiratory tract irritation, coughing
- **Skin contact** No specific data.
- **Ingestion** No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- **Potential immediate effects :** Not available.
- **Potential delayed effects :** Not available.

Long term exposure

- **Potential immediate effects :** Not available.
- **Potential delayed effects :** Not available.

Potential chronic health effects Not available.

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

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	11798.1 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water F	Fish - Gambusia holbrooki -Larvae	12 weeks

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N,N-diethyl-m-toluamide	Acute EC50 75 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 43 mg/l	Algae	96 hours
	Acute LC50 110 mg/l	Fish - minnow	96 hours
	Acute LC50 71.25 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Butane	2.89	-	low
Ethyl alcohol	-0.35	-	low
N,N-diethyl-m-toluamide	2.18	2.4	low
propane	1.09	-	low

Mobility in soil

- **Soil/water partition coefficient (KOC)** Not available.
- **Other adverse effects** No known significant effects or critical hazards.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14 TRANSPORT INFORMATION

Regulation	UN number	Proper shipping name	Classes	Packing Group	Label	Additional information
ADG	UN1950	AEROSOLS	2.1	-		**Special provisions** 63, 190, 277, 327, 344
IMDG	UN1950	AEROSOLS	2.1	-		**Emergency schedules (EmS)** F-D, S-U **Special provisions** 63, 190, 277, 327, 344, 959

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IATA	UN1950	Aerosols, flammable	2.1	-		**Passenger and Cargo Aircraft** Quantity limitation: 75 kg Packaging instructions: 203 **Cargo Aircraft Only** Quantity limitation: 150 kg Packaging instructions: 203 **Limited Quantities - Passenger Aircraft** Quantity limitation: 30 kg Packaging instructions: Y203 **Special provisions** A145, A167, A802

Special precautions for user

- **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15 REGULATORY INFORMATION

Standard Uniform Schedule of Medicine and Poisons	• **Poison chedule (Australia) :** Not scheduled
Model Work Health and Safety Regulations - Scheduled Substances	No listed substance
Australia Pesticides and Veterenary Medicines Authorothy (APVMA)	60098
Australia inventory (AICS)	All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	All components are listed or exempted.
HSNO Group Standard	Cosmetics product
HSNO Approval Number	HSR002552
Approved Handler Requirement	No.
Tracking Requirement	No.

SECTION 16 OTHER INFORMATION

Key to abbreviations

ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container

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SAFETY DATA SHEET

Product Code: AEROTS150

IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	On basis of test data
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method

References Not available.

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.

END OF SDS

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