

Safety Data Sheet

Issue Date: 25-Jun-2015

Revision Date:

Version 1

1. IDENTIFICATION

Product Identifier

Product Name SHIELD INSECT REPELLENT

Other means of identification

SDS #

ITEM# M-04580

UN/ID No

UN 1950

Recommended use of the chemical and restrictions on use

Recommended Use Insect Repellent.

Details of the supplier of the safety data sheet

Supplier Address

Ashburn Chemical Technologies
7403 Wright Rd
Houston, TX 77041

Emergency Telephone Number

Company Phone Number

832-399-1000

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear, amber spray

Physical State Aerosol

Odor Characteristic

Classification

Flammable Aerosol (liquefied gas)	Category 2
Skin irritant	Category 2
Eye Irritant	Category 2 A

Hazard Not Otherwise Classified (HNOC)

Signal Word

DANGER

Hazard Symbol



Hazard Statements

Flammable aerosol

Contains gas under pressure: May explode if heated

Causes skin and eye irritation.

Wash hands thoroughly after handling. Wear protective gloves and eye protection.

Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. - No smoking
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.

Precautionary Statements - 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.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

Precautionary Statements - Storage

Protect from sunlight.

Do not expose/store to temperatures exceeding 50°C/122°F. Store in a well-ventilated place

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Diethyl-M-Toluamide	134-62-3	22.56
Isopropyl Alcohol	67-63-0	15-40
Propane / n- Butane	68476-86-8	10-30
Acetone	67-64-1	3-7
n-Octyl bicycloheptene dicarbonximide	113-48-4	5
Di-n-propyl isocinchomeronate	136-45-8	2.5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures****General Advice**

Provide this SDS to medical personnel for treatment.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice or attention

Skin Contact

Wash contact areas with soap and water. If skin irritation persists, see a physician.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Seek medical attention if irritation persists.

Ingestion

Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Indication of any immediate medical attention and special treatment needed**Acute Health Hazard**

Eyes: redness, tearing, blurred vision.
Skin: Defatting and dermatitis.
Oral: Abdominal irritaton, nausea, vomiting, and diarrhea.

Choric Health Hazard

None known.

Notes to Physician

There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Unsuitable Extinguishing Media Do not use straight streams.

Specific Hazards Arising from the Chemical
Not determined.

Hazardous Combustion Products Oxides of carbon.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

Personal Precautions Refer to section 8 for proper Personal Protective Equipment.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods for Clean-Up Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

Waste Disposal Dispose of in accordance with local, State and Federal regulations. Do not dump in sewers. Use sand or other non- combustible absorbent material to clean up spill and place in container for later disposal. Containers may contain hazardous residue.

RCRA Status Liquid could be classified as D001 under RCRA, however product should be fully characterized prior to disposal (40 CFR 261)

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Flammable vapors may collect in low lying areas.

Incompatible Materials Strong alkalis, strong oxidizing agents, some plastics, rubber.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethyl-M-Toluamide	Not Established	Not Established	-
Isopropyl Alcohol	200 ppm	400 ppm	-
Propane/n-Butane	1000 ppm	1000 ppm	-
Acetone	500 ppm	1000 ppm	-
n-Octyl bicycloheptene dicarboximide	Not Established	Not Established	-
Di-n-propyl isocinchomeronate	Not Established	Not Established	-

Appropriate engineering controls

Engineering Controls Ambient ventilation adequate.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment Safety glasses and chemical resistant gloves.

Respiratory Protection Not required with normal use.
Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

General Hygiene Considerations After handling this product, wash hands before eating, drinking, or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Aerosol	Odor	Characteristic
Appearance	spray	Odor Threshold	Not determined
Color	Yellow / amber		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
Melting Point	Not determined.		
Boiling Point	165°C		
Freezing Point	Not determined .		
Flammability	Flammable aerosol		
Flash Point	> 200° F / 93°C		
Auto-ignition Temperature	Not determined		
Upper / Lower Flammability Limit	Not determined		
Vapor Pressure (mm Hg)	> 10	@ 77°F / 25°C	
Vapor Density	> 2	(Air = 1)	
Evaporation Rate	< 3	(butyl acetate = 1)	
Solids	Not determined		
Water Solubility	39%		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined	n-Octanol/Water (Kow)	
Specific Gravity	0.87		
Volatility Including Water	70% Volatile		
VOC Content (%)	64.5%		
Dielectric Strength (Volts)	Not determined		
Decomposition Temperature	Not determined		
Viscosity	N/A		
Explosive Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity None known.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Temperatures greater than 122°F and source of ignition.

Incompatible Materials Strong oxidizing agents, Alkalies, Acids.

Hazardous Decomposition Products Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Toxicological Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol (67-63-0)	5045 mg/kg (Rat)	12,800 mg/kg (Rabbit)	16,000 ppm (Rat) 8 hr

Information on likely routes of exposure

Eye Contact	May cause severe irritation, redness, tearing
Skin Contact	May cause mild irritation if sensitive to DEET.
Inhalation	May cause dizziness, disorientation, suffocation, unconsciousness with excessive or prolonged exposure.
Ingestion	May be harmful.

Information on physical, chemical and toxicological effects

Symptoms	See Section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	OSHA: No ACGIH: N/A NTP: No IARC: N/A OTHER: N/A
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12. ECOLOGICAL INFORMATION

Ecotoxicity	Not established.
Persistence/Degradability	Component(s) of this product are not biodegradable.
Bioaccumulation	This product is not expected to bioaccumulate.
Mobility	This product is mobile in soil.
Other Ecological Hazard	None known.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes	Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.
RCA Status	Waste likely considered D001 (Ignitable waste), under RCRA, however product Should be fully characterized prior to disposal (40 CFR 261).

14. TRANSPORT INFORMATION**DOT**

UN/ID No	UN1950
Proper Shipping Name	Aerosols, Ltd. Qty
Hazard Class / Division	2.1

IATA

UN/ID No UN1950
Proper Shipping Name Aerosols, Ltd. Qty
Hazard Class / Division 2.1

IMDG

UN/ID No UN1950
Proper Shipping Name Aerosols, Ltd. Qty
Hazard Class / Division 2.1
Environmental Hazard Water: Marine pollutant.

15. REGULATORY INFORMATION

International Regulations All components are listed or exempted.

US Federal Regulations

TSA STATUS All Chemicals are listed or exempt.

CERCLA None

SARA 311/312 Hazard Categories None.

SARA 313 Reportable Ingredients This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

US State Regulations

California Proposition 65 None

U.S. State Right-to-Know Regulations

None known

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	1	2	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	2	0	B

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Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet