

MATERIAL SAFETY DATA SHEET

BIRD SHIELD® REPELLENT CONCENTRATE

BSRC
P.O. Box 785
Pullman, Washington 99163-0785
U.S.A.

EPA Reg. No. 66550-1
EPA Est. No. 44616-MO-001
Net Wt. 128 Fl. Oz/Gal
U.S. Patent No. 5, 296,226

EMERGENCY TELEPHONE NO'S.
509/332-1989 OR 509/924-7967

SECTION 1

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|-----------------------------|---|
| Chemical Name | Methyl anthranilate 2-Aminobenzoic acid methyl ester |
| Trade Name | Bird Shield Repellent |
| Chemical Family | Aromatic acid ester + inert ingredients 26.4% methyl anthranilate 73.6% inert ingredients |
| CAS Registry No. | 134-20-3 |
| DOT Shipping Classification | Chemicals, NOI (not regulated) |
| GRAS Registry No. | USFDA 21 CFR 182-10 No. 2682 |
| TPIN | 1998E061868 |

SECTION II HAZARDOUS INGREDIENTS

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|----------------------------|---|
| Material | Methyl anthranilate (26.4%), Unassigned TLV (units) |
| CERCLA Ratings (Scale 0-3) | Health=2, Fire=1, Reactivity=O, Persistence=1 |
| NFPA Ratings (Scale 0-4) | Health=O, Fire=1, Reactivity=O |

SECTION III PHYSICAL DATA

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|---------------------------|---|
| Boiling Point, 760 mm. Hg | 382+ ⁰ F (210+ ⁰ C) |
| Freezing point | 32 ⁰ F (0 ⁰ C) |
| Specific gravity | 1.043 |
| Vapor Pressure | <1 mm Hg |
| Vapor Density | No data found |
| Solubility in Water | Complete |
| Other Solvents | Isopropyl alcohol, methanol, ethanol |
| % Volatiles by Volume | 25% maximum |
| Evaporation Rate | 100% in 10 days under direct ultraviolet light (sunlight) |
| Appearance and Odor | Greenish or pinkish white, or brownish white liquid, without color streaks when properly mixed. Yellowish crystals forming below 10 ⁰ C. Strong grape-like or flowery odor. |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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| Flash Point | 212+ ⁰ C |
| Autoignition Temperature | No data found |
| Flammability Limits in Air | No data found |
| Extinguishing Media | Carbon dioxide, dry chemicals, foam. |
| Special Fire Fighting Procedures | Full protective equipment including self-contained breathing apparatus. Carbon dioxide, dry chemical or foam preferred followed by fog nozzles. |
| Unusual Fire & Explosion Hazards | Slight fire hazard when exposed to open flame. Closed containers may explode when exposed to extreme heat. |

SECTION V HEALTH HAZARD DATA

Threshold Limit Value
Effects of overexposure

None established by OSHA, ACGIH or NOISH
Skin and eye irritation. Other toxic effects
unknown. Methyl anthranilate is classified as a
Generally Recognized as Safe (GRAS) compound
under 21 CFR 182-60.

Emergency and First Aid Procedures

IF INHALED: Remove from exposure. Restore breathing.
Keep warm and quiet. IF ON SKIN: Wash affected area
thoroughly with soap and water. IF IN EYES: Flush eyes
with large amounts of water for 15 minutes. Get medical
attention. IF SWALLOWED: Call a physician or Poison
Control Center. Drink 1 or 2 glasses of water and induce
vomiting. Do not induce vomiting or give anything by mouth
to an unconscious person.

Toxicity Data

Oral LD₅₀: Rat = 3000 mg/Kg; Mouse = 3900 mg/Kg;
Guinea pig = 2780 mg/Kg. 24 hour skin: Rabbit =
Moderate. Reproductive effects (RTECS), Tumorigenic
(RTECS), Carcinogen - None.

SECTION VI REACTIVE DATA

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| Stability | Breaks down under ultraviolet light. |
| Incompatibility | Oxidizing agents. |
| Hazardous Decomposition Products | BY FIRE: Carbon dioxide, carbon monoxide and oxides of nitrogen. |
| Hazardous polymerization | Will not occur. |

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case the Material is Spilled or Released

Collect the material for reclamation or place in a covered waste disposal container.

Waste Disposal Method

Landfill, incinerate in approved facility or expose to ultraviolet (UV) light or sunlight until all odor dissipates. Do not incinerate closed container. Dispose of in accordance with federal, state and local regulations regarding pollution.

SECTION VIII SPECIAL PROTECTIVE INFORMATION

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| Respiratory Protection | Use a respirator (MISHA)/NIOSH approval number TC-21C) approved for organic vapors, fumes and mists in areas laden with vapor. |
| Ventilation | Mix in well ventilated area (local exhaust preferable, general exhaust acceptable) or in the out-of-doors. |
| Protective Clothing | Rubber gloves. |
| Eye Protection | Safety glasses or goggles with unperforated side shields. |
| Other Protective Equipment | Safety shower, eye wash. Wash skin and clothing thoroughly with soap and warm water after handling or contamination. |

SECTION VIX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage:

Do not store near open flames or oxidizing agents. Do not store at temperatures below 50°F (10°C) or above 110°F (43°C).

Other Precautions

Avoid excessive exposure. Do not take internally.

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