

SAFETY DATA SHEET

Fireback[®]**BED BUG & INSECT****SPRAY & JET**Health Emergencies: INFOTRAC[®] (800) 535-5053**1. PRODUCT AND COMPANY INFORMATION****Product Identity:** Fireback Bed Bug & Insect Spray & Jet**Recommended use of the chemical and restrictions on use:** A Liquefied Aerosol Insecticide Spray.**Manufacturer:** Nisus Corporation
100 Nisus Drive
Rockford, TN 37853**Telephone:** Phone: (800) 264-0870
Fax: (865) 577-5825**Emergency Phone:** 800-535-5053 (INFOTRAC)**SDS Date of Preparation:** 01/12/16**2. HAZARDS IDENTIFICATION****OSHA Regulatory Status:** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).**GHS Classification:**

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 3
Aspiration toxicity	Category 1

GHS Label Elements:**Signal Word:** Danger!**Statements of Hazard**

H304 - May be fatal if swallowed and enters airways
 H332 - Harmful if inhaled
 H316 - Causes mild skin irritation
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P271 - Use only outdoors or in a well-ventilated area
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear protective gloves
 P321 - Specific treatment (see Section 4/ First Aid).
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P363 - Wash contaminated clothing before reuse
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P331 - Do NOT induce vomiting
 P405 - Store locked up
 P411 + P235 - Store at temperatures not exceeding 54.4 °C/ 130.0 °F. Keep cool
 P501 - Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Pyrethrins	8003-34-7	0.10
Piperonyl Butoxide (PBO)	51-03-6	0.50
Permethrin	52645-53-1	0.20
Petroleum distillates, hydrotreated light	64742-47-8	10-15 *
Propane	74-98-6	1-5 *
Isobutane	75-28-5	10-15 *

The exact formulation is being withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES**Aspiration pneumonia hazard:** May be fatal if swallowed and enters airways**Eye:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.**Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.**Ingestion:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.**Inhalation:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.**Self protection of the First Responder:** Remove all sources of ignition. Use PPE as required.**Note to physicians:** Contains petroleum distillates—vomiting may cause aspiration pneumonia. Fore skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroig exposure is topical application of tocopherol acetate (Vitamin E).**5. FIRE FIGHTING MEASURES****Suitable (and Unsuitable) Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient.**Specific hazards arising from the chemical:** No information available.**Hazardous combustion products:** hydrogen chloride, carbon monoxide, carbon dioxide (CO₂).**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** In the event of fire and/or explosion do not breathe fumes.**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment, and Emergency Procedures:**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

Environmental precautions: If spilled, prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.**Methods and Materials for Containment and Cleaning Up:** Prevent further leakage or spillage if safe to do so. Cover powder spill with

plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. For more information, see product label.

Conditions for Safe Storage, Including Any Incompatibilities: Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. For more information, see product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins 8003-34-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³	-
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³	-
Isobutane 75-28-5	STEL: 1000 ppm	-	TWA: 800 ppm TWA: 1900 mg/m ³	-

NIOSH IDLH Immediately Dangerous to Life or Health

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. For more information, see product label.

General Hygiene Considerations: While using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Milky white liquefied gas with mild odor.

Physical State: Aerosol—compressed liquefied gas

Odor Threshold: No information available.

Vapor Density: No information available

Initial Boiling Point/Range: No information available

Solubility In Water: No information available

Vapor Pressure: No information available

Relative Density: No information available

Evaporation Rate: No information available

Melting/Freezing Point: No information available

pH: 5-7

Percent Volatile: No information available

Octanol/Water Coefficient: No information available

Decomposition Temperature: No information available

Viscosity: No information available

Flammability (solid, gas): No information available

Flashpoint: 93.3°C (>200°F) **Autoignition Temperature:** None

Flammable Limits: LEL: No information available UEL: No information available

Bulk density: 6.61

VOC Content (%): 14.7

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing

Conditions to Avoid: Heat, Flame, Sparks.

Incompatible Materials: Incompatible with strong acids and bases.

Incompatible with oxidizing agents.

Hazardous Decomposition Products: Hydrogen chloride, Carbon monoxide, Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: Harmful if swallowed. Repeated or high levels of ingestion may cause potentially fatal kidney damage.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

Eye: May cause slight irritation with redness, pain and tearing. Product was not irritating in a study with rabbits.

Skin: May cause irritation on prolonged or repeated contact. Product was not irritating in a study with rabbits. Negative in a guinea pig sensitization study.

Chronic: Avoid repeated exposure.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by IARC, NTP or OSHA.

Germ Cell Mutagenicity: No data available

Reproductive Toxicity: No information available

Developmental Toxicity:

Teratogenicity: No information available.

STOT—single: No information available.

STOT—repeated exposure: No information available.

Chronic Toxicity: Avoid repeated exposure.

Target Organ Effects: Central Nervous System.

Piperonyl Butoxide: Carcinogenicity/Oncogenicity: At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

Numerical Measures of Toxicity:

Product Toxicity Data:

Oral rat LD₅₀: >5050 mg/kg; Dermal rabbit LC₅₀: >5050 mg/kg

Inhalation rat LC₅₀: >2.34 mg/L

Comment: Toxicology data was bridged from a similar formula.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and Degradability: No information available.

Bioaccumulative Potential: No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water
Permethrin 52645-53-1	6.5
Propane 74-98-6	2.3
Isobutane 75-28-5	2.88

Other Adverse Effects: No information available.

Environmental hazards (EPA): Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do

not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATION

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

14. TRANSPORTATION INFORMATION

DOT:

UN/ID Number: UN1950
Proper Shipping Name: Aerosols, non-flammable
Hazard Class: 2.2

Air (IATA/ICAO):

UN/ID Number: UN1950
Proper Shipping Name: Aerosols, non-flammable
Hazard Class: 2.2

Vessel (IMO/IMDG):

UN/ID Number: UN1950
Proper Shipping Name: Aerosols, non-flammable
Hazard Class: 2.2

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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.

SARA 311/312 Hazard Categories:

Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA-Reportable Quantities
Pyrethrins (8003-34-7)	1 lb

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Reportable Quantity (RQ)
Pyrethrins (8003-34-7)	1 lb	RQ 1 lb; final RQ RQ 0.454 kg; final RQ

US State Regulations:

California Proposition 65: This product does not contain any Proposition 65 chemicals.

US EPA Label Information:

EPA Registration Number: 1021-2707-64405

Difference between SDS and EPA (FIFRA) Pesticide Label:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

Precautionary Statements: Harmful if swallowed.

International:

TSCA: Complies

16. OTHER INFORMATION

NFPA Rating:

Health = 2 Flammability = 4 Instability = 0

HMIS Rating:

Health = 1* Flammability = 4 Physical Hazard = 0

Personal Protection= X

*= Chronic Health Hazard

SDS Revision History: 06/01/15: New SDS

01/12/16: Revised

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