



Resistant Bed Bug Powder

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Resistant Bed Bug Powder
Product Code(s): BLKBB-P
Other means of Identification: 25(b)
Recommended Use: Pesticide/Insecticide

Manufacturer/Marketer:

P.F. Harris Manufacturing Company, LLC
P.O. Box 1922

Cartersville, GA 30120

Telephone: 1-800-637-0317 or 770-667-6549

info@pfharris.com

For information regarding MEDICAL EMERGENCIES call 1-888-222-1222

SECTION 2. HAZARDS IDENTIFICATION

OSHA Regulatory Status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

HAZARDS CLASSIFICATION:

Acute toxicity – Inhalation (Dusts/Mists) - Category 4

Eye – Irritation – Category 2B

SIGNAL WORD: CAUTION

GHS HAZARD PICTOGRAMS:



Hazard Statements: Causes moderate eye irritation. May be harmful by inhalation – mechanical irritation.

Chronic/Long Term Effects: None

Acute/Potential Health Effects:

EYES: May cause eye irritation.

SKIN: May cause mild irritation.

INHALATION: Inhalation of dusts may cause irritation to upper respiratory tract and mucous membranes.

INGESTION: May be irritating to the digestive tract: may cause gastric distress, stomach pains.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

| Chemical Name | CAS Number | WT % |
|--------------------------------------------|-------------|-------|
| Malic Acid | 6915-15-7 | 0.50 |
| 2-phenethyl propionate | 122-70-3 | 0.50 |
| Silica gel, precipitated, crystalline-free | 112926-00-8 | 99.00 |

The remaining components of this product are non-hazardous or are in small enough quantities as to not to meet thresholds for disclosure. These components contain no substances or impurities which influence the classification of this product.

SECTION 4. FIRST AID MEASURES

EYES: 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. If irritation persists get medical attention.

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.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. 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.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Contain spillages. Dampening with water can reduce dust. Sweep or vacuum up and collect in suitable containers for recovery or disposal.

SECTION 7. HANDLING AND STORAGE

HANDLING: Use this product only in a manner consistent with its labeling. Avoid generation of dusts. Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes.

STORAGE: Keep container closed in a dry and cool place. Keep in properly labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| EXPOSURE GUIDELINES | EXPOSURE LIMITS | | | | | |
|--------------------------------------------------------|-----------------|-------|-----------|-------------|--------------|-------|
| | OSHA PEL | | ACGIH TLV | | Supplier OEL | |
| Chemical Name | ppm | mg/m3 | ppm | mg/m3 | ppm | mg/m3 |
| Silica, Amorphous – precipitated silica and silica gel | | | | 6 8h TWA | | |

ENGINEERING CONTROLS: Eyewash Stations

Eye Protection: Safety glasses or goggles.

Skin Protection: Wear protective (plastic or rubber) gloves and protective clothing.

Respiratory Protection: Avoid inhalation of dusts. Wear suitable respiratory equipment if working in confined spaces with inadequate ventilation or where there is any risk of exposure limits being exceeded.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Appearance and Odor: White free flowing, mild sweet odor

pH: 5.0-5.5

Freezing Point: N/A

Boiling Point: N/A

Flash Point: N/A

Evaporation Rate (water=1): N/A

Flammability: N/A

Upper/Lower Explosive limits: N/A

Vapor Pressure: N/A

Vapor Density (air=1) (20°C): N/A

Specific Gravity (Water=1): N/A

Solubility: partially miscible in water/alcohol

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: None known.

Hazardous Decomposition Products: possible carbon oxides, (CO, CO₂)

Incompatible Materials: strong acids, bases and oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Acute Toxicity: The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg.

Inhalation: Synthetic amorphous silica has little adverse effect on lungs and does not produce significant toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (e.g. Asthma, bronchitis) may be aggravated by exposure to dust.

Eye contact: Dust may cause discomfort and mild irritation

Skin contact: Dust may have a drying effect on the skin.

Sensitization: non-sensitizer

Carcinogenicity: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

SECTION 12. ECOLOGICAL INFORMATION

This product is virtually inert and has no known adverse effect on the environment. However, as with all products, 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.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. Waste must be disposed of in accordance with federal, state and local environmental control regulations.
RCRA Waste code(s): Not applicable

SECTION 14. TRANSPORT INFORMATION

| | DOT Classification | TDG Classification | IMDG | IATA |
|-------------------------|--------------------|--------------------|------|------|
| UN Number | Not Regulated | Not Regulated | - | - |
| UN Proper Shipping Name | - | - | - | - |
| Transport Hazard Class | - | - | - | - |
| Packing Group | - | - | - | - |
| Environmental Hazards | - | - | - | - |
| Additional Information | - | - | - | - |

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:

TSCA (TOXIC SUBSTANCE CONTROL ACT): The ingredients of this product are listed or exempted from listing because of Low Volume Exemption has been granted in accordance with 40 CFR 723.50

SARA 302/304 EMERGENCY PLANNING EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

SARA 311/312: Acute Health: Chronic: Fire: Sudden Release of Pressure: Reactive:

SARA 313 (Specific Toxic chemical listings): None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this SDS, states listed below may have regulations on ingredients contained in this product. Check with your state for additional regulations.

CA Proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986): This product does not contain any Proposition 65 chemicals.

SECTION 16. OTHER INFORMATION

Date of issue/revision: 12/28/2015

Version: 1.0

Date of previous issue: none

This chemical is a FIFRA 25(b) product and is subject to certain labeling requirements under federal law. These requirements may differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Notice to reader: This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handles or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractor and customers who will use this product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.

SAFETY DATA SHEET

HARRIS EGG KILL & RESISTANT BED BUG KILLER



Section 1: IDENTIFICATION

Trade Name: Egg Kill & RESISTANT BED BUG KILLER
Product code/ID: BLKBB
EPA Reg. No. 1021-2597-3
Recommended use: Liquid Insect Spray
Manufacturer/Marketer Identification:
PF Harris Manufacturing Co., LLC
7 River Drive, PO Box 1922
Cartersville, GA 30120
EMERGENCY PHONE NUMBER:
1-800-637-0317

Section 2: HAZARDS IDENTIFICATION

Hazards classification: Skin Cat3 Eyes Cat2B

Signal Word: WARNING

Hazard statements: Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.



Pictogram(s): Aquatic toxicity

Chronic / Long Term Effects: None known

Signs and Symptoms of Overexposure: Target Organ Effects:.

Reproductive/Developmental Information:

Carcinogenic Information:

EMERGENCY OVERVIEW

Acute/Potential Health Effects:

Skin: May cause skin/eye irritation. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Eyes: May cause temporary irritation, tearing, and blurred vision.

Ingestion: Harmful if swallowed

Inhalation: Excessive inhalation of mists can cause nasal and respiratory irritation.

Section 3: COMPOSITION, INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CAS NUMBER | %BY WGHT. |
|--------------------------------------|---------------|--------------|
| Imidacloprid | 13826 1-41-3 | 0.05 |
| D_Phenothrin | 26002-80-2 | 0.4 |
| n-octyl bicycloheptene dicarboximide | 113-48-4 | 1.0 |

SAFETY DATA SHEET

HARRIS EGG KILL & RESISTANT BED BUG KILLER

Section 4: FIRST AID MEASURES

EYES: Hold eyes open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call poison control center or doctor for treatment advise.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15 minutes. Call poison control center or doctor for treatment advise.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advise.

INGESTION: Immediately call poison control center or doctor for treatment advise. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless told to do so by poison control or doctor.

Note to physician: For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocophenol acetate (Vitamin E)

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: Not applicable product is 95% water

Specific hazards: This product is classified as non-combustible; however, in the extreme temperatures that fires may produce, some of the constituents of this formula may decompose to give off such gasses as carbon dioxide, carbon monoxide, and nitrogen oxides.

Special protective equipment: Use a full-faced self contained breathing apparatus with full protective gear. Keep nearby containers and equipment cool with water stream.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal protective equipment: Safety glasses, gloves, chemical resistant boots

Specific procedures:

Containment procedures/methods, materials: Stop release, if possible without risk. Dike or contain release, if possible , if immediate response can prevent further damage or danger. Isolate and control access to release area. Take actions to reduce vapors. Absorb with appropriate absorbentsuch as sand or vermiculite.

Cleanup procedures: Collect product residues and absorbent into drums, storage tanks, etc., as appropriate.**Environmental precautions:** Contains pyrethroids which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local , state/provincial and federal/national regulations.

Section 7: HANDLING AND STORAGE

Precautions: DO not apply this product in or on electrical equipment due to the possibility of shock hazard.

Safe storage recommendations: Protect from freezing. DO not transport or store below 32°F(0°C). Store in a cool, dry place, with container tightly sealed.

Always store pesticides in the original container. Store away from food and pet-food.

Handling: Wear long sleeved shirt, long pants, socks and shoes. Take precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be

SAFETY DATA SHEET

HARRIS EGG KILL & RESISTANT BED BUG KILLER

Section 7: HANDLING AND STORAGE (cont'd)

used when handling this product in enclosed areas. Do not contaminate water, food or foodstuffs by storage, handling or disposal. KEEP OUT OF THE REACH OF CHILDREN.

Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

TLV's, PEL's, etc.

| <u>Ingredient:</u> | <u>TLV</u> | <u>PEL</u> |
|--------------------------------------|------------|------------|
| Imidacloprid | | NONE |
| d-Phenothrin | | " |
| n-octyl bicycloheptene dicarboximide | | " |

Engineering Controls: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

Eye Protection: Avoid contact with eyes. Safety glasses recommended.

Skin Protection: avoid contact with skin and clothing. Chemical resistant gloves recommended.

Respiratory Protection: Long sleeved shirt, pants, shoes and socks recommended when using

Special PPE: None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Color: Opaque, white

Odor: Slight, sweet, solvent

Odor threshold: N/D

pH: 5.06

Melting point/freezing point;

Initial boiling point and boiling range;

Flash point: >93.3°F(200°C)

Evaporation rate: = Water

Flammability (solid, gas): N/A

Upper/lower flammability or explosive limits:N/A

Vapor pressure: N/D

Vapor density:N/D

Relative density: Heavier than air

Solubility(ies): Partially miscible

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/D

Viscosity: 6cps at 22°F(72.9°C), Brookfield #1

Section 10: Stability and REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: No

Conditions to avoid: Extreme temperatures.

Hazardous Decomposition Products: Exposure to extreme heat may release oxide of carbon and nitrogen. Incompatibility: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

SAFETY DATA SHEET

HARRIS EGG KILL & RESISTANT BED BUG KILLER

Section 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure: Skin, eye.

Delayed, immediate, long-term effects from short, long term exposure:

Eye: Practically non-irritating, clearing within 24 hours (Albino rabbits)

Maximum Mean Total Score-1.3

Skin: Slight irritation at 72 hours. Irritation Index= 0.80

Sensitization: Positive

ACUTE

DERMAL LD₅₀: >5000 mg/kg (Albino rabbit)

Oral LD₅₀: 3129 mg/kg (Albino rat)

Inhalation: LC₅₀ mg/L Note= Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC₅₀ pf this material places it in EPA Toxic Category IV.

General comments; Some of the above data was bridged from the concentrate that is used in the manufacture of this end-use product.

NONE of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12: ECOLOGICAL INFORMATION

Toxicity data, if available: Data not available for this product

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

If empty: Non-refillable container. DO NOT reuse or refill this container. Place in trash or offer for recycling, if available

If partially filled: Call local solid waste agency for disposal instructions.

Never pour unused product down any indoor or outdoor drain. None of the

Section 13: DISPOSAL CONSIDERATIONS (cont'd)

ingredients in this product appear on RCRA lists (40 CFR 261.24, 40 CFR 251.33) or CERCLA Hazardous Substances list (40 CFR Part 302, Table 302.4)

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Insecticides. Insect or Animal Repellent, Liquid, NOS

Class: No-hazardous

UN number: Not available

Un proper shipping name: Not available

Transport class: Non-Hazardous

Packing group: N/A

Environmental hazards: Toxic to marine life. Keep out of waters.

Bulk shipping: N/A

Special precautions when handling: None

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

Title III Section 311/312 Hazardous Categories -40 CFR 370.2:

SAFETY DATA SHEET

HARRIS EGG KILL & RESISTANT BED BUG KILLER

Section 15: REGULATORY INFORMATION (cont'd)

ACUTE (X) Chronic () Fire () Pressure () Reactive () Not Applicable ()

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355

Appendix A:

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material. **Not Applicable**

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s): **Not**

Applicable

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations
California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986):

None

Section 16: OTHER INFORMATION

This information was compiled from current manufacturer's MSDS's of the component parts of the product. Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

Preparation Date: 4/29/2015

Last Revision Date: 1/24/2015



Egg Kill & Resistant Bed Bug Spray

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Egg Kill & Resistant Bed Bug Spray
Product Code(s): BLKBB-16A
Other means of Identification: EPA Reg. No. 1021-2570-3
Recommended Use: Pesticide/Insecticide

Manufacturer/Marketer:

P.F. Harris Manufacturing Company, LLC
P.O. Box 1922
Cartersville, GA 30120
Telephone: 1-800-637-0317 or 770-667-6549
info@pfharris.com
For information regarding MEDICAL EMERGENCIES call 1-888-222-1222

SECTION 2. HAZARDS IDENTIFICATION

OSHA Regulatory Status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

HAZARDS CLASSIFICATION:

Acute toxicity – Inhalation (Dusts/Mists) - Category 4
Skin sensitization – Category 1
Flammable aerosol – Category 2
Gases under pressure – Liquefied gas

SIGNAL WORD: **WARNING**

GHS HAZARD PICTOGRAMS:



Hazard Statements: Harmful if inhaled. May cause allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable aerosol. Contains gas under pressure; may explode if heated.
Chronic/Long Term Effects: None

Acute/Potential Health Effects:

EYES: May cause eye irritation.

SKIN: May cause mild irritation/sensitization.

INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes.

INGESTION: May be irritating to the digestive tract: may cause gastric distress, stomach pains.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

| Chemical Name | CAS Number | WT % |
|--------------------------------------|-------------|-----------|
| d-phenothrin | 26002-80-2 | 0.40 |
| n-Octyl bicycloheptene dicarboximide | 113-48-4 | 1.00 |
| Imidacloprid | 138261-41-3 | 0.05 |
| Isobutane | 75-28-5 | 5< - >15* |

*the exact percentage (concentration) has been withheld as a trade secret

The remaining components of this product are non-hazardous or are in small enough quantities as to not to meet thresholds for disclosure. These components contain no substances or impurities which influence the classification of this product.

SECTION 4. FIRST AID MEASURES

EYES: 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.

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.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. 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.

NOTE TO PHYSICIANS: For skin effects, a highly therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Caution: Use of water spray when fighting fire may be inefficient.

SPECIFIC HAZARDS: Closed containers may explode due to buildup of pressure when exposed to extreme heat. Products of combustion include compounds of carbon and oxygen, including carbon monoxide.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Prevent product from entering drains.

SECTION 7. HANDLING AND STORAGE

HANDLING: Use this product only in a manner consistent with its labeling. Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition. Take precautionary measures against static discharges. Use park-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.

STORAGE: Keep container closed in a dry and cool place. Keep in properly labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| EXPOSURE GUIDELINES | EXPOSURE LIMITS | | | | | |
|---------------------|-----------------|-------|---------------|-------|--------------|-------|
| | OSHA PEL | | ACGIH TLV | | Supplier OEL | |
| Chemical Name | ppm | mg/m3 | ppm | mg/m3 | ppm | mg/m3 |
| Isobutane | | | STEL: 1000 | | | |

ENGINEERING CONTROLS: Safety showers. Eyewash Stations. Ventilation Systems.

Eye Protection: Safety goggles. Face protection shield.

Skin Protection: Wear protective gloves and protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for highborne contaminant concentrations. Respiratory protections must be provided in accordance with current local regulations.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Aerosol – compressed liquefied gas

Appearance and Odor: Milky white/yellow, characteristic/sweet/solvent odor

pH: 5.0-5.5

Freezing Point: N/A

Boiling Point: N/A

Flash Point:

>200°F (>93.3°C)

Evaporation Rate (water=1): N/A

Flammability: N/A

Upper/Lower Explosive limits: N/A

Vapor Pressure: N/A

Vapor Density (air=1) (20°C): N/A

Specific Gravity (Water=1): N/A

Solubility: partially miscible in water/alcohol

Viscosity: 5.3 cPs @ 21.1°C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Extreme heat, sources of ignition (heat, flames and sparks)

Hazardous Decomposition Products: carbon oxides, (CO, CO₂)

Incompatible Materials: strong acids, bases and oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Oral LD50 (rat) : >5,000 mg/Kg

Dermal LD50 (rabbit) : >5,000mg/Kg

Inhalation LC50: >2.09 mg/l (rat; 4 hours)

Eye contact: Non irritating to eyes (rabbit)
 Skin contact: Slightly irritating (rabbit) – Skin irritation index: 0.8
 Sensitization: Positive (guinea pig)
 Acute effects: May be harmful if swallowed.

Carcinogenicity: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

SECTION 12. ECOLOGICAL INFORMATION

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.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. Waste must be disposed of in accordance with federal, state and local environmental control regulations.
RCRA Waste code(s): Not applicable

SECTION 14. TRANSPORT INFORMATION

| | DOT Classification | TDG Classification | IMDG | IATA |
|-------------------------|---------------------------------------|-------------------------|-------------------------|-------------------------|
| UN Number | UN1950 | UN1950 | UN1950 | UN1950 |
| UN Proper Shipping Name | Aerosols, non-flammable | Aerosols, non-flammable | Aerosols, non-flammable | Aerosols, non-flammable |
| Transport Hazard Class | 2.2 | 2.2 | 2.2 | 2.2 |
| Packing Group | - | - | - | - |
| Environmental Hazards | Toxic to fish and other invertebrates | - | - | - |
| Additional Information | - | - | - | - |

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:

TSCA (TOXIC SUBSTANCE CONTROL ACT): The ingredients of this product are listed or exempted from listing because of Low Volume Exemption has been granted in accordance with 40 CFR 723.50

SARA 302/304 EMERGENCY PLANNING EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

SARA 311/312: Acute Health: [] Chronic: [x] Fire: [] Sudden Release of Pressure: [x] Reactive: []

SARA 313 (Specific Toxic chemical listings): None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this SDS, states listed below may have regulations on ingredients contained in this product. Check with your state for additional regulations.

CA Proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986): This product does not contain any Proposition 65 chemicals.

SECTION 16. OTHER INFORMATION

Date of issue/revision: 12/09/2015

Version: 1.0

Date of previous issue: none

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals.

Notice to reader: This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handles or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractor and customers who will use this product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.