

SAFETY DATA SHEET

Issue Date: 01-Aug-2016 Revision Date: 01-Aug-2016 Version: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: Crossfire® Bed Bug Concentrate

EPA Registration Number: 1021-2776

Other means of identification

Part Code: 3071

Recommended use of the chemical and restrictions on use:

Recommended Use: Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address: FAX #:

McLaughlin Gormley King Company (763) 544-6437

8810 10th Avenue North Minneapolis, MN 55427

Telephone Number: (800) 645-6466, or (763) 544-0341

e-Mail Address: mgk-sds@mgk.com

Emergency telephone numbers:

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300 **International:** (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to

(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Label elements

Emergency Overview

WARNING

Hazard statements

H332 - Harmful if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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Appearance: White, cream Physical state: Liquid Odor Sweet

Precautionary Statements - Prevention:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements - Response:

P321 - Specific treatment (see Section 4/ First Aid).

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

Precautionary Statements - Storage:

P405 - Store locked up

P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Metofluthrin	240494-70-6	0.100
Clothianidin	210880-92-5	4.00
Piperonyl Butoxide (PBO)	51-03-6	10.0

^{*}The exact percentage (concentration) of composition has been 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: • No information available

Description of first aid measures:

Eye contact: 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 Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control centeror doctor for treatment advice.

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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.

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:

Use personal protective equipment as required.

Note to physicians: For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid

exposure is topical application of tocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable 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.

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO2).

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: None.

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.

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and

Chemical Properties

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HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection

Chronic Hazard Star Legend *= Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment as required. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on

the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See

Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Crossfire® Bed Bug Concentrate

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Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Use personal protective equipment as required. Ensure adequate ventilation,

especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. For more information, see product label.

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Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep containers

tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls: Safety showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Protective eyewear is recommended, but is not required.

Skin and body 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 high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

General Hygiene Considerations:

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid

Appearance: White, cream

Odor Sweet

Odor threshold: No information available Color (Gardner Scale): No information available

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Property: Values: Comment: • Method

pH: 4.90 @ 5% in H₂O.

Melting point / freezing point:

Boiling point / boiling range:

No information available

Flash point: > 93.3 °C / > 200.0 °F Tag Closed Cup

Evaporation rate: No information available Flammability (solid, gas): No information available **Upper flammability limit (UEL):** No information available Lower flammability limit (LEL): No information available No information available Vapor pressure: No information available Vapor density: **Specific Gravity:** No information available Water solubility: No information available Partition coefficient; n-Octanol/ No information available

Water:

Autoignition temperature:

Decomposition temperature:

Kinematic viscosity:

No information available

No information available

No information available

29.5 cPs @ 20°C, 22.0 cPs @

40°C

Refractive Index: No information available

Other Information:

Density: 1.0281 g/cm³ @ 22.5 °C

VOC Content (%): 0.29

Miscibility/ Solubility:

Water: Miscible
Alcohol Miscible

Aromatic solvents: Partially miscible Petroleum distillates: Immiscible

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

Inhalation LC50 >2.15 mg/L, (rat; 4 hours)

Eye contact: Non-irritating to eyes. (rabbit).

Skin Contact: Non-irritating to the skin. (rabbit).

Sensitization: Non-sensitizer. (guinea pig).

Piperonyl Butoxide: Marginally higher incidences of benign liver tumors in mice were observed

Carcinogenicity/ Oncogenicity: following lifetime high dose exposures to PBO. The significance of these

observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this

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product will result in carcinogenic effects.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

Reproductive toxicity:

Developmental Toxicity
Teratogenicity:

STOT - single exposure:
STOT - repeated exposure:
Chronic toxicity:

No information available.
No information available.
No information available.
Avoid repeated exposure.
Avoid repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

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 CONSIDERATIONS

Waste treatment methods

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. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid

Hazard Class: This material is not hazardous.

Other Shipping Information: This material is not regulated by the DOT as a hazardous material when shipped

in Non-Bulk quantities (i.e., less-than 119 Gallons / 450 Liters).

When shipping in Bulk-quantities (i.e., more than 119 Gallons / 450 Liters), please

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contact MGK® for the proper shipping description.

Air (IATA/ ICAO)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid

Hazard Class: This material is not hazardous.

Vessel (IMO/ IMDG) Not available

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372

Chemical Name	SARA 313 - Threshold Values %	
Piperonyl Butoxide (PBO) - 51-03-6	1.0	

SARA 311/312 Hazard

Categories

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

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

US State Regulations:

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California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-2776

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:

International:

TSCA Does not comply Does not comply **DSL/NDSL EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply KECL Does not comply **PICCS** Does not comply **AICS** Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

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SDS Prepared By: Troy Azzivitto, MGK® Chemistry Department.

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Disclaimer: The data contained herein are based on information currently available to

McLaughlin Gormley King Company and to the best of our knowledge, are

accurate and based on sound expert opinion. Our statements herein, however, are not to betaken as a warranty or representation for which McLaughlin Gormley King

Company assumes legal responsibility.

End of Safety Data Sheet.