

SAFETY DATA SHEET

Issue Date: 26-Jan-2018 Revision Date: 26-Jan-2018 Version: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: Troika® Misting Concentrate

EPA Registration Number: 1021-2609

Other means of identification

Part Code: 2980

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

7325 Aspen Lane North Minneapolis, MN 55428

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

Environment: OSHA has not adopted the environmental - portion of the GHS regulations, however, this SDS may include information on environmental effects.

Classification:

OSHA Regulatory Status:

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

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1

Label elements

Emergency Overview

WARNING			1
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Hazard statements

- H332 Harmful if inhaled
- H317 May cause an allergic skin reaction
- H302 Harmful if swallowed
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects



Appearance: Milky white / light Physical state: Liquid Odor Mild , Sweet

amber

Precautionary Statements - Prevention:

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

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

Precautionary Statements - Response:

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 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

Precautionary Statements - Storage:

P404 - Store in a closed container

Precautionary Statements - Disposal:

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

Hazards not otherwise classified (HNOC):

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Pyrethrins	8003-34-7	2.75
Piperonyl Butoxide (PBO)	51-03-6	27.50
Permethrin	52645-53-1	6.25
Petroleum distillates, hydrotreated light	64742-47-8	< 10 *

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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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

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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.

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), Hydrogen chloride, Chlorine gas.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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.

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NFPA Health hazards 2 Flammability 1 Instability 0 Physical and

Chemical Properties

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HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection

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Chronic Hazard Star Legend *= Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as

required. Evacuate personnel to safe areas. Keep people away from and upwind

of spill/leak.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush

into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional

ecological information.

Methods and material for containment and cleaning up

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

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material.

Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam

up.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Wash contaminated clothing before

reuse. P270 - Do not eat, drink or smoke when using this product. Use personal

protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. For more

information, see product label.

Conditions for safe storage, including any incompatibilities

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

reach of children. 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:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 5000 mg/m ³	-
8003-34-7	_	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³	
Petroleum distillates,	-	-	-	TWA: 100 ppm
hydrotreated light				TWA: 525 mg/m ³
64742-47-8				

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NIOSH IDLH Immediately Dangerous to Life or Health

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965

F.2d 962 (11th Cir., 1992).

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

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regulations.

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

Considerations: 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: Milky white / light amber

Odor Mild, Sweet

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

Property: Values: Comment: • Method

pH: 5.3 @ 5% in H₂O. .

Melting point / freezing point:

Boiling point / boiling range:

No information available

No information available

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

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

Water:

Autoignition temperature: No information available No information available No information available No information available

Dynamic viscosity: 32.3 cPs.

Refractive Index: No information available

@ 21.2 °C...

Other Information:

Density: 1.029 g/cm³ @ 21.2 °C

VOC Content (%): 3.73

Miscibility/ Solubility:

Water: Miscible
Alcohol Miscible
Aromatic solvents: Immiscible
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), Hydrogen chloride, Chlorine gas.

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

 Oral LD50
 1,750 mg/kg (rat)

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

 Inhalation LC50
 >2.06 mg/L, (rat; 4 hours)

Eye contact: Minimal eye irritation. Irritation clearing in 24 hours. (rabbit). **Skin Contact:** Slightly irritating. Irritation cleared within 7 days. (rabbit).

Skin Irritation Index: 0.9

Sensitization: Sensitizer; skin. (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

product will result in carcinogenic effects.

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

by OSHA, IARC or NTP.

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Reproductive toxicity:

Developmental Toxicity
Teratogenicity:

STOT - single exposure:

No information available.
No information available.
No information available.
No information available.

Chronic toxicity: Repeated contact may cause allergic reactions in very susceptible persons. Avoid

repeated exposure.

Target Organ Effects: Central nervous system, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water:
Permethrin	6.5
52645-53-1	

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)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group: III

Reportable Quantity (RQ): Pyrethrins (1 Lb.)

Other Shipping Information: This material is not regulated as a hazardous material by the DOT in quantities

less than 36 Lbs.

Shipping name for quantities less than 36 Lbs.:

Insecticides, Insect or Animal Repellent, Liquid

Class: This material is not hazardous.

Air (IATA/ ICAO)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group: |||

Vessel (IMO/ IMDG)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group: |||

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	
Permethrin - 52645-53-1	1.0	

SARA 311/312 Hazard

Categories

Acute health hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

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	CWA - Toxic	CWA - Priority	CWA - Hazardous
	Quantities	Pollutants	Pollutants	Substances
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	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins	1 lb	-	RQ 1 lb final RQ

8003-34-7		RQ 0.454 kg final RQ

US State Regulations:

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-2609

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.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

International:

TSCA Complies DSL/NDSL Complies

EINECS/ELINCS Does not comply **ENCS** Does not comply **IECSC** Complies Complies KECL

Complies **PICCS AICS** Complies

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.

Issue Date:

Revision Date:

Revision Note:

26-Jan-2018

26-Jan-2018

- SDS sections updated
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- 5
- 8
- 9
- 14 - 15

- 16

SDS Prepared By: e-Mail Address:

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Disclaimer:

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

End of Safety Data Sheet.