

SAFETY DATA SHEET

Issue Date: 10-Oct-2016

Revision Date: 10-Oct-2016

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Product Name: EPA Registration Number:	Exponent® Insecticide Synergist 1021-1511	
Other means of identification Part Code:	2332B	
Recommended use of the chemi	cal and restrictions on use:	
Recommended Use:	Insecticide.	
Details of the supplier of the safety data sheet		
Manufacturer Address:	FAX #:	
McLaughlin Gormley King Compar 8810 10th Avenue North Minneapolis, MN 55427	ny (763) 544-6437	
Telephone Number:	(800) 645-6466, or (763) 544-0341	
e-Mail Address: mgk-sds@mgk.co	om	
Emergency telephone numbers: 24 Hour TRANSPORTATION Emergency:CHEMTREC®: (800) 424-9300 (703) 527-3887International:(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.	

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
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

WARNING

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Hazard statements

Hazard statements		
 H332 - Harmful if inhaled 		
 H320 - Causes eye irritation 		
• H317 - May cause an allergic skin react	ion	
 H400 - Very toxic to aquatic life 		
• H410 - Very toxic to aquatic life with lon	g lasting effects	
H227 - Combustible liquid	6 6	
Appearance: Clear, to light amber	Physical state: Liquid	Odor Slight - Solvent

Precautionary Statements - Prevention:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- 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/protective clothing/eye protection/face protection

Precautionary Statements - Response:

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

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

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage:

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):

Not applicable

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Piperonyl Butoxide (PBO)	51-03-6	91.30

*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.
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 artificialrespiration, 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. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

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

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

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.

<u>NFPA</u>	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection X

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. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.	
Environmental precautions:	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:	Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.

Conditions for safe storage, including any incompatibilities

Storage Conditions:Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights,
electric motors and static electricity). Keep containers tightly closed in a cool,
well-ventilated place. Keep away from heat. Keep in properly labeled containers.
For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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	
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Engineering Controls: Safety showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Appearance: Odor Odor threshold: Color (Gardner Scale):	Liquid Clear , to light amber Slight - Solvent No information available 1	
<u>Property:</u> pH: Melting point / freezing point: Boiling point / boiling range: Flash point:	Values: 5.1 No information available No information available 87.8 °C / 190.0 °F	Comment: • Method @ 5% in H ₂ O Tag Closed Cup;
Evaporation rate: Flammability (solid, gas): Upper flammability limit (UEL): Lower flammability limit (LEL): Vapor pressure: Vapor density: Specific Gravity: Water solubility: Partition coefficient; n-Octanol/ Water: Autoignition temperature: Decomposition temperature: Kinematic viscosity: Dynamic viscosity: Refractive Index:	No information available No information available 39.2 cPs @ 23.2°C. 1.4961	@ 25°С (77°F)
Other Information:		
Density: VOC Content (%):	1.052 g/cm³ @ 20.0 °C 2	
<u>Miscibility/ Solubility:</u> Water: Alcohol Aromatic solvents: Petroleum distillates:	Miscible Miscible Miscible Miscible	

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

Heat, flames and sparks.

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 Dermal LD₅₀ Inhalation LC₅₀ Eye contact: Skin Contact: Skin Irritation Index:	 >3,129 mg/kg (rat) >5,000 mg/kg (rabbit) >2.04 mg/L, (rat; 4 hours) Moderately irritating to the eyes. Irritation clearing in 72 hours. (rabbit). Slight irritation at 48 hours. (rabbit). 0.5
Sensitization:	Positive. (guinea pig).
Piperonyl Butoxide: Carcinogenicity/ Oncogenicity:	Marginally higher incidences of benign liver tumors in mice were observed 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.
Reproductive toxicity: Developmental Toxicity Teratogenicity: STOT - single exposure: STOT - repeated exposure: Chronic toxicity:	No information available. No information available. No information available. No information available. No information available. 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>i.e.</i> , less-than 119 Gallons / 450 Liters).	
<u>Air (IATA/ ICAO)</u>	When shipping in Bulk-quantities (<i>i.e.</i> , more than 119 Gallons / 450 Liters), please contact MGK® for the proper shipping description.	
Proper Shipping Name:	Insecticides, Insect or Animal Repellent, Liquid	
Hazard Class:	This material is not hazardous.	
Vessel (IMO/ IMDG)		
UN/ID Number:	UN3082	
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.	
Hazard Class:	9	
Packing Group:	III	

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	
<u>Categories</u>	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

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:

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-1511

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.
- Harmful if absorbed through the skin.
- Causes moderate eye irritation.

International:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Does not comply

KECL	Does not comply
PICCS	Does not comply
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: 10-Oct-2016	Revision Date: 10-Oct-2016	Revision Note: - New SDS. - GHS - Classification.
SDS Prepared By: e-Mail Address:	Troy Azzivitto, MGK® Chemistry Department. mgk-sds@mgk.com	
<u>Disclaimer:</u>	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.