

Safety Data Sheet

MGK[®] Asia-Pacific Pty Ltd

McLaughlin Gormley King Company

PRODUCT CODE: C000264

Date Prepared: 11/2/2014

Replaces: 15/1/2014

MGK[®]-264 Insecticide Synergist

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1 Identification

Product Name: MGK[®]-264 Insecticide Synergist
Other Names: n-Octyl bicycloheptene dicarboximide
Uses: Insecticide Synergist
Supplier Name: MGK[®] Asia-Pacific PTY Limited
Address: Suite 105/25 Solent Circuit
Baulkham Hills NSW 2153, Australia

24 Hour Emergency Contact numbers:

Telephone: 0412 55 10 91 / 0417 95 07 92
Chemtrec Int'l: 0011 1 703 527-3887

2 Hazards Identification

Classified as hazardous according to the criteria of Safe Work Australia.
Not classified as dangerous goods for transport.

Classification Acute Toxicity - Inhalation (Category 4)
Sensitisation – Skin (Category 1B)

Pictogram



Signal Word Warning

Hazard Statements H332 Harmful if inhaled

Precautionary Statements

Prevention
P261 Avoid breathing mist or vapour.
P271 Use only outdoors or in a well-ventilated area.
P273 Contaminated work clothing should not be allowed out or the workplace.
P280 Wear protective gloves.

Response
P303+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse
P312 Call a Poison Centre or doctor/physician if you feel unwell.

Disposal P501 Dispose of contents/container in accordance with local regulations

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3 Composition / Ingredients

Identity (Other Names)	CAS Number	Proportion
MGK [®] 264 (n-Octyl bicycloheptene dicarboximide)	000113-48-4	>92% w/w
Other ingredients not contributing to hazard		<8% w/w

4 First Aid Measures

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

Swallowed:	Do NOT induce vomiting. Keep affected person warm and quiet and get medical attention immediately.
In Eye:	Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.
On Skin:	Immediately flush affected area with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention.
Inhaled:	Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately.
Note to Physicians:	No specific instructions.

5 Fire Fighting Measures

Flash Point:	>93.3°C (TCC)
Combustibility:	C1
Flammability Limits:	
LFL:	Not established
UFL:	Not established
Extinguishing Media:	Foam, carbon dioxide, or dry chemical.
Hazardous Combustion Products:	Oxides of nitrogen and carbon may be formed.
Precautions for Fire Fighters:	Treat as an oil fire. Use full-face self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with water spray. Contain run-off for proper disposal.
Hazchem Code:	3X

6 Accidental Release Measures

Containment of Spill:	Small Spill: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger.
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Isolate and control access to the release area. Take actions to reduce vapours. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

Large Spill: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapours. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent

7 Handling and Storage

Precautions for Safe Handling:

Wear impervious gloves such as neoprene or nitrile. Wear approved safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not required when handling this product. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label

Conditions for Safe Storage:

Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

8 Exposure Controls / Personal Protection

Exposure Limits:

None assigned.

Engineering Controls:

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

Personal Protective Equipment:

RESPIRATORY PROTECTION:

Not normally required. If ventilation is limited wearing of a respirator fitted with organic vapour cartridge or self-contained breathing apparatus is recommended.

SKIN PROTECTION:

Wear neoprene or nitrile gloves and protective clothing.

EYE PROTECTION:

Wear approved safety glasses, goggles or face shield.

WORK HYGIENIC PRACTICES:

DO NOT SMOKE EAT, DRINK OR APPLY COSMETICS IN WORK AREA!! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, drinking and using the toilet.

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9 Physical and Chemical Properties

APPEARANCE:	Viscous liquid with a slight yellow tint.
ODOUR:	Mild amine odour.
PHYSICAL STATE:	Liquid.
VAPOUR PRESSURE:	1.85 x 10 ⁻⁵ mm Hg @25°C.
VAPOUR DENSITY:	Not established.
BOILING POINT:	150°C @ 2 mm Hg.
MELTING POINT:	Not applicable.
SOLUBILITY IN WATER:	Insoluble.
SPECIFIC GRAVITY @ 20°C:	1.0460
COLOUR, (GARDENER):	1
pH:	7.2 @ 10% in water.
VISCOSITY:	297 cps @ 24°C
REFRACTIVE INDEX @ 25°C:	1.4990

10 Stability and Reactivity

Chemical Stability:	Stable.
Incompatible Materials:	Strong acidic or alkaline materials.
Hazardous Decomposition Products:	In fire, may produce oxides of nitrogen and/or oxides of carbon.
Hazardous Polymerization:	Not known to occur.

11 Toxicological Information

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Acute

Swallowed:

Acute Oral LD₅₀ (rat): = 5,000 mg/kg

In Eyes:

Conjunctival irritation clearing in 72 hours.

On Skin:

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

Primary skin irritation (Albino rabbit): No irritation at 72 hours. Irritation Index = 1.75

Inhaled:

Dermal Sensitization (guinea pig): Positive.

Acute Inhalation LC₅₀ (rats; combined genders): = 1.98 mg/L.

Rats exposed for 4 hours to test atmosphere.

Chronic:

NOEL 50 mg/kg/day (24 month, rat). At higher rates, effects were observed in the liver.

Carcinogenicity:

Not classified as a carcinogen. No evidence of oncogenic effect related to administration of the substance at doses tested (up to 450 mg/kg /day).

Teratogenicity:

Rats: NOEL for maternal toxicity = 300 mg/kg/day; NOEL for developmental toxicity = 1,000 mg/kg/day. Rabbits: NOEL = 100 mg/kg/day.

Reproduction:

No adverse reproductive effects were observed at the highest dose tested (10,000 ppm).

Mutagenicity:

Not a mutagen.

12 Ecological Information

Ecotoxicity:

Highly toxic to aquatic organisms (*Daphnia magna* LC₅₀ 0.51 mg/L). Moderately toxic to fish (LC₅₀ 1 - 10 mg/L).

Persistence /Degradability:

Does not hydrolyse or undergo direct photolysis. Atmospheric half-life expected to be <1 hour.

Environmental Fate & Mobility:

In water, adsorbs strongly to sediments and particulate matter. Does not volatilize appreciably.

Bioaccumulation Potential:

Expected to bioaccumulate moderately in aquatic organisms.

13 Disposal Considerations

Disposal Methods:

Product should be disposed of according to local, and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains Do not mix with other waste materials.

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14 Transport Information

Not classified as dangerous goods for transport by road or rail according to ADG 7.

For Marine Transport:

UN Number: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (n-Octyl bicycloheptene dicarboximide)
Class (Subsidiary Risk): 9, MARINE POLLUTANT
Packing Group: III
Hazchem Code: 3X

15 Regulatory Information

Poison Scheduling: Schedule 5
Registration/Notification: APVMA Approval No. 44576

16 Other Information

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Glossary

ACGIH - American Conference of Governmental and Industrial Hygienists.

ASCC - Australian Safety and Compensation Commission.

BCF - Bioconcentration Factor - ability to accumulate a chemical in an organism to levels greater than in the surrounding medium. Calculated by dividing the concentration of a chemical in an organism by the concentration in the surrounding medium.

EC₅₀ - median effective concentration. The concentration of a substance that courses a specified response/effect in an organism or population.

Explosive Limits - The range of concentrations (% by volume in air) of a flammable gas or vapour that can result in an explosion in a confined space.

K_{oc} - the organic carbon partition coefficient (mL soil water /g organic carbon).

LC₅₀ - Lethal Concentration 50%. The concentration of a substance that kills 50% of a target population.

LD₅₀ - Lethal Dose-50%. The dose of a substance that kills 50% of a target population.

NOAEL - The highest dose or concentration of a substance used in a test/study that does not produce any observable adverse effects in the target organism.

NOEL - The highest dose call concentration of a substance used in a test/study that does not produce any observable effects in the target organism.

pH - Measure of how acidic or alkaline a material is using a 1 - 14 scale. pH 1 is strongly acidic and pH 14 strongly alkaline.

Polymerisation - a chemical reaction in which molecules (monomers) combine to form larger molecules (polymers). A hazardous polymerisation reaction is one that occurs at a fast rate and releases large amounts of energy.

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P_{ow} - The octanol-water partition coefficient. The ratio of the concentration of octanol and in water at equilibrium and at a specified temperature used in environmental studies to indicate fate of chemicals and the environment.

STEL - Short-Term Exposure Limit. The maximum concentration of a substance that workers can be exposed to for periods up to 15 minutes without adverse effects e.g. irritation, tissue damage, narcosis (drowsiness or unconsciousness).

TWA - Time Weighted Average. The time weighted average concentration of a substance that most workers may be repeatedly exposed to over a 8-hour or 40-hour week without adverse effect.

This Material Safety Data Sheet has been written according to the NOHSC National Code of Practice for the Preparation of Material Safety Data Sheets, 2nd Edition [NOHSC:2011(2003)]. 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 be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

Material Safety Data Sheet prepared by T. Azzivitto

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