



SUMITOMO CHEMICAL

SAFETY DATA SHEET MADEX Biological Insecticide

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name MADEX Biological Insecticide

Relevant identified uses of the substance or mixture and uses advised against

Application Biological insecticide

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier www.sumitomo-chem.com.au
Sumitomo Chemical Australia Pty Ltd
Level 5, 51 Rawson Street,
EPPING, NSW 2121
(02) 8752 9000
(02) 8752 9099
Reception@sumitomo-chem.com.au

Emergency telephone number

Emergency telephone 1800 024 973 (Australia)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Precautionary statements P405 Store locked up.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition and information on ingredients

Mixtures

Other, non-hazardous ingredients

60-100%

CAS number: —

MADEX Biological Insecticide

Cydia pomonella granulovirus

<1%

CAS number: —

SECTION 4: First aid measures

Description of first aid measures

General information	If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766), and follow the advice given. Show this Safety Data Sheet to a doctor.
Inhalation	Only possible by exposure to HOT product. Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure. Symptomatic treatment is advised.
Ingestion	No specific recommendations.
Skin Contact	Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin, wash immediately with plenty of water.
Eye contact	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	No specific symptoms known.
Eye contact	No specific symptoms known.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Do not use the following: Foam.

Special hazards arising from the substance or mixture

Specific hazards	Vapours cause coughing. At elevated temperatures (> 200°C), there is a risk of exothermic polymerization. At temperatures > 280°C, acrolein may be formed.
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Advice for firefighters

Protective actions during firefighting	Avoid contact with oxidizing agents. Cool closed containers with water.
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Hazchem Code	3Z
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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use protective clothing, chemical-resistant gloves and boots. Do not inhale.
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Environmental precautions

Environmental precautions Prevent the entry of spilled material and runoff from spillage into waterways, sewers, basements or confined areas. Avoid release to the environment. Collect spillage.

Methods and material for containment and cleaning up

Methods for cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used cleaning materials into closable receptacles.

Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions The usual precautions for handling chemicals should be observed.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Store in the refrigerator (< 5°C) for two years. Store at -18°C for years without any loss of activity.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1

SECTION 8: Exposure controls and personal protection

Control parameters

Exposure controls

Eye/face protection No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection When using the product, wear elbow length PVC gloves.

Other skin and body protection Wear protective clothing.

Hygiene measures Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection No specific recommendations.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Grey-brown
Odour	Characteristic.
Odour threshold	Not determined.
pH	6-7
Melting point	Not determined.
Initial boiling point and range	103°C - 290°C

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Flash point	Not determined. > 101°C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not relevant.
Relative density	1.16
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	>200°C
Explosive properties	Not considered to be explosive.
Oxidising properties	Not applicable.

SECTION 10: Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Keep at temperature not exceeding 200°C.
Materials to avoid	Oxidising agents.
Hazardous decomposition products	Acrolein

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) NOAEL 5x10⁹ granules / kg bw, Oral, Rat

Skin corrosion/irritation

Animal data Dose: 0.5mL/animal (2.2x10¹³ granula of CpGV/L), 4 hours, Rabbit Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1mL/eye (2.2x10¹³ granula of CpGV/L), 24 hours, Rabbit Non-irritating

Respiratory sensitisation

Respiratory sensitisation Guinea pig: 35 mg CpGV (7 × 10⁸ granules) per m³ for 15 min, no adverse effects

Germ cell mutagenicity

Genotoxicity - in vitro Not determined.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological Information

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: >100 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: >100 mg/l, *Scenedesmus subspicatus*
EC₅₀, 7 days: >100 mg/l, *Lemna gibba*

Persistence and degradability

Persistence and degradability pH, UV light, Soil microflora

Bioaccumulative potential

Bioaccumulative Potential Not determined.

Partition coefficient Not determined.

Mobility in soil

Mobility CpGV persists in the soil for a fairly long period in the immobilised state and does not accumulate.

Adsorption/desorption coefficient Not determined.

Surface tension Not determined.

Results of PBT and vPvB assessment

Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

Disposal methods Triple or preferably pressure rinse containers before disposal. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

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SECTION 14: Transport information

General Not a dangerous good according to ADG code 7

UN number

3082

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)

9

Packing group

III

Environmental hazards

Special precautions for user

Hazchem Code 3Z

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Inventories

Australia - AICS

None of the ingredients are listed or exempt.

SECTION 16: Any other relevant information

Training advice Only trained personnel should use this material.

Revision date 1/12/2016

Revision 1

SDS No. 4786

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.