MATERIAL SAFETY DATA SHEET SUMITOMO CHEMICAL

Engage® P Ant Bait

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Engage® Ant Bait

Other Names: None.

Recommended Use: An insect growth regulator that breaks the reproductive life cycle of ants, causing starvation of the colony.

Company: Sumitomo Chemical Australia Pty Ltd
A.B.N. 21 081 096 255

Address: 242 Beecroft Road, Epping NSW 2121

Telephone Number: (02) 8752 9000 (Mon–Fri 8am–5pm EST)

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

Website: www.sumitomo-chem.com.au

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the criteria of the Australian Safety and Compensation Council (ASCC).

Risk Phrases: Xi:
R36 – Irritating to eyes.
N:
R52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S22 – Do not breathe dust.

SUSDP Classification (Poison Scheduling): Not scheduled.

ADG Classification: Not classified as a Dangerous Good for transport via road and rail.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS number	Proportion
(S)-methoprene	65733-16-6	0.5%
Other ingredients determined as non hazardous	-	to 100%

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

General: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Swallowed: If swallowed, do not induce vomiting, seek medical advice.

Skin contact: If on skin, remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Seek medical advice if irritation develops.

Eye contact: If in eyes, hold eyes open and flood with water for at least 15 minutes and seek medical advice.

Inhalation: If affected, remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice.

Note to physician: Apply basic aid and decontamination procedures. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint: NA

Flammable limits: NA

Auto-ignition temperature: NDA

Suitable Extinguishing Media: Small fire: Use dry chemical, carbon dioxide or water spray or foam. Large fire: Use water spray, fog or foam.

Hazards from Combustion Products: May emit toxic and irritating fumes under fire conditions such as carbon dioxide and carbon monoxide.

Precautions for Fire Fighting and Special Protective Equipment:	Ensure respiratory equipment is available. Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Surrounding containers should be cooled using a fine water spray. All run-off must be contained.
Hazchem Code:	None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP PROCEDURES

SPILLS

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear personal protective equipment as specified in Section 8. Do not allow material to enter sewers or bodies of water.

Small Spills: (Dry spill)	Reduce airborne dust. Sweep up material and contain in a refuse vessel for disposal. If necessary, wash the spill area with an alkali detergent and water and absorb and contain for disposal.
Large Spills: (Dry Spill)	Place leaking containers into salvage drums. Form a barricade around spill and in front of drains or waterways in spill vicinity, using soil or other non reactive material. Sweep up material and contain in a refuse vessel for disposal. **Contact emergency services as required.**
Spills in Water:	This material is insoluble in water. The material will sink to the bottom. Stop or reduce contamination of any water. Isolate contaminated water. Remove contaminated water for treatment or disposal.
Disposal:	Contaminated material must be disposed of in accordance with all State and/or Local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: DO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Keep out of reach of children, unauthorised persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water. For personal protection, see Section 8.

Conditions for Safe Storage: Keep out of reach of children, unauthorised persons and animals. Store in the closed, original container in a dry, cool, well ventilated area, out of direct sunlight. Do not store near food, feedstuffs, fertiliser or seed. Store at ambient temperatures.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

Exposure standards represent the air borne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health of, nor cause undue discomfort to, nearly all workers. A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by the Australian Safety and Compensation Council (ASCC) for any of the major ingredients in this product. Hence, there is no exposure standard allocated to this product.

ENGINEERING CONTROLS

No engineering control measures are allocated to the use of this product, however always use in a well ventilated area. Do not inhale dust.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use only in well ventilated areas. Respiratory protection is recommended.

Hand Protection: Wear chemical resistant gloves.

Eye Protection:	Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.
Skin and Body Protection:	Avoid contact with skin or clothing. Skin contact should be minimised by wearing protective clothing including gloves, hat, long sleeved shirt, long pants and chemical resistant boots.
Other Information:	Wash hands after use. Launder clothes, gloves and face shield or goggles before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Product Specific)

Appearance:	Small brown granules.
Odour:	Mild fishmeal odour.
pH:	NA
Vapour Pressure:	NA
Vapour Density:	NA
Boiling Point:	NA
Melting Point:	NA
Solubility:	NA
Density:	NDA
Viscosity:	NA
Flashpoint:	NA
Explosive Limits:	NDA
Ignition Temperature:	NDA

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage and handling conditions (See Section 7).
Conditions to Avoid:	Avoid direct sunlight. Isolate from sources of heat, naked flames or sparks.
Incompatible Materials:	Not compatible with strong acids or bases. Not compatible with strong oxidisers.
Hazardous Decomposition Products:	Emits toxic fumes under fire conditions (See also Section 5).
Hazardous Reactions:	NDA

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Toxicology

Swallowed:	**NOT HARMFUL.** (LD_{50} (rat) > 5000 mg/kg) (based on (S)-Methoprene)
Skin:	**NOT HARMFUL.** (LD_{50} (rat) > 5050 mg/kg) (based on (S)-Methoprene) Contact with skin is not expected to be harmful.
Inhalation:	**MODERATELY TOXIC.** (LC_{50} rat (4 hour) > 2.38 mg/L) (based on (S)-Methoprene) Inhalation may be harmful.

Irritation

Skin:	**SLIGHT IRRITANT** (based on (S)-Methoprene).
Eye:	**NON-IRRITANT** (based on (RS)-Methoprene).

Sensitisation

Skin:	**NOT A SKIN SENSITISER** (based on (RS)-Methoprene).

CHRONIC HEALTH EFFECTS (based on (RS)-Methoprene)
Methoprene is not considered as an oncogenic compound.

OTHER TOXICOLOGICAL INFORMATION (based on (RS)-Methoprene)

Mutagenicity Information

Methoprene is not a mutagenic compound.

Teratology (Birth Defects) Information
Methoprene is not a teratogenic compound.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (based on (S)-Methoprene)

Highly toxic to fish: LC_{50} Trout = 760 ppb

LC_{50} Bluegill > 370 ppb

Highly toxic to aquatic invertebrates: LC_{50} *Daphnia* = 360 ppb

ECOTOXICITY (based on (RS)-Methoprene)

Low toxicity to adult bees: LD_{50} Adult Honey bees (oral and topical) > 1000 µg/bee

ENVIRONMENTAL FATE (based on (RS)-Methoprene)

Hydrolysis: Half-life > 4 weeks

Photolysis: Half-life < 10 hours

Soil Half Life: In soil, rapidly degraded, under aerobic and anaerobic conditions. DT_{50}:~ 10 days

Water Solubility: < 2 ppm

SECTION 13: DISPOSAL CONSIDERATIONS

This material must be disposed of as a hazardous waste. Disposal should be in accordance with local, national or state regulations.

Contaminated Packaging: Do not dispose of chemicals on-site. Puncture, or shred and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SECTION 14: TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Proper Shipping Name:	NA
Class:	NA
Sub Risk Class:	NA
UN Number:	NA
Hazchem Code:	NA
Packing Group:	NA

SECTION 15: REGULATORY INFORMATION

Registration Status: This product is under permit with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

SECTION 16: OTHER INFORMATION

Abbreviations:

NA	Not Applicable
NDA	No Data Available

Revision Date: 25 May 2010
Revision Number: 5

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY.