Sherwood Chemicals Australasia Pty Ltd

SAFETY DATA SHEET
BIFORCE 200 SC TERMITICIDE & INSECTICIDE

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Section 1: Identification

PRODUCT NAME:	**Biforce 200 SC Termiticide & Insecticide**
OTHER NAMES:	**Bifenthrin 200g/L Suspension Concentrate**
PRODUCT USE:	For use to control Termites and general Pests in and around houses or buildings.
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Section 2: Hazards identification

CLASSIFICATION ACCORDING TO GHS:

Acute toxicity: Oral	Category 3
Acute toxicity: Demal	Category 4
Acute toxicity: Inhalation	Category 4
Skin corrosion / Irritation	Category 3
Eye damage / Irritation	Category 2B
Specific Target Organ Toxicity (Single Exposure)	Category 2
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Hazardous to the Aquatic environment-short term (Acute) hazard	Category 1
Hazardous to the Aquatic environment-long term (Chronic) hazard	Category 1

PICTOGRAMS OF GHS:



SIGNAL WORD: **Warning**

HAZARD STATEMENT:

HEALTH:

H301 : Harmful if swallowed.
H312 : Harmful in contact with skin
H322 : Harmful if inhaled
H316 : Causes mild skin irritation.
H320 : Causes eye irritation.
H371 : May cause damage to nervous system.
H373 : May causes damage to nervous system through prolonged or repeated exposure.

ENVIRONMENT:

H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT:

GENERAL:

P101 : If medical advice is needed, have product container or label at hand.
P102 : Keep out of reach of children.
P103 : Read label before use.

PREVENTION:

P201 : Obtain special instructions before use.
P202 : **Do not** handle until all safety precautions have been read and understood.
P260 : **Do not** breathe mist / vapour.
P261 : Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264 : Wash hands thoroughly after handling.
P270 : **Do not** eat, drink or smoke when using this product.
P271 : Use only outdoors or in a well-ventilated area.
P273 : Avoid release to the environment.

RESPONSE:

P301+P312 : If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 : IF ON SKIN: Wash with plenty of water.
P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311	: If exposed or concerned: Call a POISON CENTER/doctor.
P312	: Call a POISON CENTER/ doctor/…/if you feel unwell.
P314	: Get medical advice/attention if you feel unwell.
P330	: Rinse mouth.
P332+P313	: If skin irritation occurs: Get medical advice/attention.
P337+P313	: If eye irritation persists: Get medical advice/attention.
P363	: Wash contaminated clothing before reuse.
P391	: Collect spillage.
DISPOSAL: **P501**	: Dispose of contents/container to approved method and / or local regulations.

Section 3: Composition / Information on Ingredients

Chemical entity	CAS Number	Concentration %
Bifenthrin	82657-04-3	20.0
Propylene glycol	57-55-6	15 - 20
1,2-benzisothiazolin-3-one	2634-33-5	< 0.25
Other ingredients determined not to be hazardous	mixture	Balance to 100 %

Section 4: First Aid Measures

EYE: : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

INHALATION: : Remove patient to fresh air and keep comfortable for breathing.
: Get medical attention immediately.

SKIN: : Remove and wash contaminated clothing immediately.
: Wash affected area thoroughly with soap and water.
: If the patient feels unwell seek medical advice.

INGESTION: : If swallowed: Rinse mouth, **Do NOT** induce vomiting (If it's possible to head down maintain open airway and prevent aspiration) get medical attention immediately.

ADVICE TO DOCTOR: : Symptomatic treatment**.**

Section 5: Fire Fighting Measures

EXTINGUISHING MEDIA SUITABLE: : Use carbon dioxide, water spray, foam or dry powder extinguishers.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: : Carbon monoxide, Carbon dioxide, toxic and noxious fumes.

SPECIAL PROTECTIVE ACION FOR FIRE-FIGHTERS: : Wear self-contained breathing apparatus and chemical-protective clothing.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS:
: Use personal protective equipment. Check packaging - there may be further storage instructions on the label.
: Avoid contact with the skin, eyes and clothing.
: Keep unauthorized people away.
: Remove contaminated clothes, undergarments and shoes immediately.

ENVIRONMENTAL PRECAUTIONS:
: Avoid disposal of spilled material into soil, waterways, drains and sewers.
: **Do not** empty into drains.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :
: For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, diatomaceous earth).
: For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus.
: Dispose of absorbed material in accordance with regulations.
: Collect waste in suitable containers, which can be labeled and sealed.
: Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
: Waste through waste removal contractor is licensed and/or local authority control.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:
: Avoid contact with skin, eyes and clothing.
: Wash hands with soap and water after handling.
: Remove contaminated clothing and protective equipment before entering eating areas.

PRECAUTIONS FOR SAFE STORAGE :
: Storage in normal temperature at dry, cool and well ventilate.
: Protection from the sun and sealed.
: Stored in an upright position and protect container against physical damage.
: Keep away from food, drink and animal feeding stuffs.

: Check packaging - there may be further storage instructions on the label.

Section 8: Exposure Controls and Personal Protection

NATIONAL EXPOSURE STANDARDS:

Components	CAS-No.	Control parameters	Basis
Propylene glycol	57-55-6	10 mg/m^3 (TWA)	WEEL

ENGINEERING CONTROLS: : Ensure adequate ventilation of the working area.

PERSONAL PROTECTIVE EQUIPMENT: : Wear safety glasses and appropriate chemical resistance protective gloves.
: Respirator is necessary when using this product. Clean up after work.

Section 9: Physical and Chemical Properties

APPEARANCE: : Off white viscous liquid suspension.
ODOUR: : Mild odour.
pH: : 3.5 – 7.0 @ 25°C.
FREEZING POINT: : < 0 °C
BOILING POINT/RANGE: : 100 °C
FLASH POINT: : No flash point - Measurement made up to the boiling point.
EVAPORATION RATE: : No applicable
: No flash point - Measurement made up to the boiling point.
FLAMMABILITY: : No data available.
VAPOUR PRESSURE:
VAPOUR DENSITY: : No data available.
SOLUBILITY IN WATER AT 25°C: : Dispersible
DENSITY: : 1.04– 1.07 Kg/Lt. @ 30°C
PARTITION COEFICIENT n-OCTANOL/WATER: : No data available.
FLAMMABLE LIMITS:
(LEL)% : To our knowledge, we do not expect any hazard if used according to label
(UEL)% : To our knowledge, we do not expect any hazard if used according to label
AUTO-IGNITION TEMPERATURE: : Based on the water content the product does not ignite.
DECOMPOSITION TEMPERATURE: : No data available.
VISCOSITY: : 400 – 600 cPs @ 25°C

Section 10: Stability and Reactivity

REACTIVITY: : No hazardous reactions if stored and handled as indicated.

CHEMICAL STABILITY: : Stable under normal conditions of storage and use

POSSIBILITY OF HAZARDOUS REACTIONS: : No hazardous reactions if stored and handled as indicated.

CONDITIONS TO AVOID: : Heat, sparks and open flames. Avoid extremes of temperature, e.g. below 0°C and above 50°C.

INCOMPATIBLE MATERIALS: : Strong oxidizing agent, Strong bases and Strong acid.

HAZARDOUS DECOMPOSITION PRODUCT: : Combustion or thermal decomposition will evolve carbon and nitrogen oxides and halogen compounds.

Section 11: Toxicological Information

Acute Toxicity

Acute Toxicity (Oral)	**: LD_{50} = 253.03 mg/Kg, rat => Category 4**
Acute Toxicity (Dermal)	**: LD_{50} =4,070.37 mg/Kg, rabbit => Category 4**
Acute Toxicity (Inhalation)	**: LC_{50} = 3.32mg/l, 4 hrs., rat => Category 4**

Skin Corrosion/Irritation : **Category 3 => Causes mild skin irritation.**

Serious Eye Damage/Eye Irritation : **Category 2B => Causes eye irritation.**

Respiratory or Skin Sensitization

Respiratory sensitization	**: Not classified.**
Skin sensitization	**: Not classified.**

Germ Cell Mutagenicity : **Not classified.**

Carcinogenicity : **Not classified.**

Reproductive toxicity : **Not classified.**

Specific Target Organ Toxicity/Single Exposure	**: Category 2 => May causes damage to nervous system.**
Specific Target Organ Toxicity/Repeated Exposure	**: Category 2 => May causes damage to nervous system through prolonged or repeated exposure.**
Aspiration Hazard	**: Not classified.**

Section 12: Ecological Information

TOXICITY: HAZARDOUS TO THE AQUATIC ENVIRONMANT

Short-Term (Acute) Hazard	**: Category 1 => Very toxic to aquatic life.**
Long-term (Chronic) Hazard	**: Category 1 => Very toxic to aquatic life with long lasting effects.**

PERSISTENCE AND DEGRADABILITY: : No data available.

BIOACCUMULATIVE POTENCIAL: : No data available.

MOBILITY IN SOIL: : No data available

OTHER ADVERSE EFFECTS: : No data available.

Section 13: Disposal Considerations

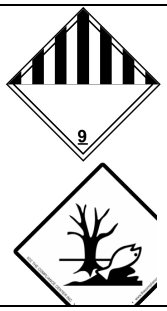
WASTE TREATMENT METHOD:

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
: **Do not** dispose into the environment, waterways, drains and sewers.
: Should not produce waste contaminated soil or water.

: This product is dangerous for the environment. discharge to sewers, drains or watercourses.

Section 14: Transport Information

Road & Rail Transport: This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082.
Marine and Air Transport: Biforce 200SC Insecticide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-

ข้อควรปฏิบัติ	UN Number	ชื่อขนส่งที่ถูกต้อง (Proper Shipping Name)	Classes	PG*	ฉลาก	ข้อมูลเพิ่มเติม
IMDG	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BIFENTHRIN (MARINE POLLUTANT)	9	III		**Emergency schedules** (Ems) F-A, S-F
IATA	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BIFENTHRIN)	9	III		**Cargo Packing Instruction** : 914 **Passenger Packing Instruction** : 914

Beware ensure transportation of the container tightly closed, no leak and does not overturned. No delivery with food, fiber, oxidizing agent, bases, etc.

Section 15: Regulatory Information

Classified as a hazardous substance according to criteria of Safe Work Australia. (Xn).
Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 6 poison.
This product is registered with the Agricultural and Veterinary Chemicals Code Act 1994. Product No. 64877.
Product is not classified as a Dangerous Good according to the ADG Code (7th Ed).
Product is classified as a Dangerous Good according to the International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).
Requirements concerning special training: Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

APVMA REGISTRATION NO: : No. 64877

LABELLING ACCORDING TO EU GUIDELINES:

Xn : Harmful
N : Dangerous for the environment

: R22 Harmful if swallowed**.**
: R48/22 Toxic : danger of serious damage to health by prolonged exposure if swallowed.
: R50 Very toxic to aquatic organisms.
: R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment**.**

Safety Phrases	**: S2** Keep out of the reach of children. **: S7/9** Keep container tightly closed and in a well-ventilated place. **: S13/15** Keep away from food, drink, animal feeding stuffs and heat. **: S20** When using do not eat**.** **: S25/26** Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty water and seek medical advice. **: S27/28** After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. **: S36/37/39** Wear suitable protective clothing, gloves and eye/face protection. **: S29/56 Do not** empty into drains; dispose of this material and its container to hazardous or special waste collection point. **: S61** Avoid release to the environment. **: S62** If swallowed, **do not** induce vomiting: seek medical advice immediately and show this container or label.

Section 16: Other Information

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Disclaimer
The above information comes from the knowledge that there is currently preparing information and altruism to explain the impact of the product on health, safety and the environment only. It should not be construed as a guarantee of any particular features of the products mentioned herein.

END OF MSDS