



1. Identification of the substance/mixture and of the company/undertaking

Product name:	CHAINDRITE 1
Product Code:	85937
Product Use:	Pressurized aerosol product for cracks and crevices treatment for termites, ants, wood-boring insects and cockroaches.
Company name	Sherwood Chemicals Public Company Limited 1061-9 Srinakarin Road, Suanluang, Suanluang, Bangkok 10250 THAILAND
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Manufacturer	Sherwood Chemicals Public Company Limited Wellgrow Industrial Estate, Km.36 Bangna-trad, 90/1 M9, Bangwua, Bangpakong, Chachengsao 24180 THAILAND
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Emergency Telephone number	All hours +66 38-522-302

Section 2: Hazards Identification

Classification according to GHS:	Flammable aerosol Acute toxicity : Inhalation Skin corrosion / Irritation Carcinogenicity Specific Target Organ Toxicity Single Exposure Aspiration hazard Aquatic hazard (Acute) Aquatic hazard (long term)	Category 1 Category 4 Category 3 Category 2 Category 3 Category 1 Category 1 Category 2
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Pictograms of GHS:



Signal Word : **Danger**

Hazard Statement :

Physical	Extremely flammable aerosol pressurized container: may burst if heated.
Health	Harmful if inhaled. Causes mild skin irritation. Suspected of causing cancer. (route of inhalation) May cause respiratory irritation and may cause drowsiness or dizziness. May be fatal if swallowed and enters airways.



Environment	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	Keep away from heat/spark/open flames/hot surfaces. No smoking. Do not spray on an open flame of other ignition source. Do not pierce or burn, even after use. Avoid breathing spray and use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protections. Avoid release to the environment.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Collect spillage.
Storage	Protect from sunlight. Do not expose to temperature exceeding 50 °C/122 °F. Store locked up and Store in a well-ventilated place. Keep container tightly closed.
Disposal	Dispose of contents/container to approved method and / or local regulations.

Section 3: Composition / Information on Ingredients

Chemical entity	CAS Number	Concentration %
Alphacypermethrin	67375-30-8	0.10
Bifenthrin	82657-04-3	0.03
Methylene Chloride	75-09-2	4 – 6
Iso-paraffinic Hydrocarbon	64742-48-9	30 – 50
Naphtha (petroleum), hydro desulfurized heavy	64742-82-1	30 – 50
LPG (Liquefied petroleum gas)	68476-85-7	30 – 50

Section 4: First Aid Measures

FIRST AID:	For advice, contact a Poisons Information Centre, Phone 1367 (24 hours) or 02-419-7007 (24 hours); or a doctor at once. Keep victim warm and quiet-Obtain immediate medical care – Ensure that attending medical personnel are aware of identity and nature of the product involved, and take precautions to protect themselves.
Inhalation:	Remove victim to fresh air – apply resuscitation if victim is not breathing. Do not use direct mouth to mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device- Administer oxygen if breathing is difficult.



Skin: If skin contact occurs, remove all contaminated clothing immediately and flush skin immediately with running water for 15 minutes (and soap if available). For minor skin contact, avoid spreading material on unaffected skin. Seek medical attention in event of irritation.

Eye: If in eyes wash out immediately with plenty of water for 15 minutes. Obtain medical care.

Ingestion: If sprayed in mouth, Give rinse out mouth with water, then provide liquid slowly and as much as casualty comfortably drink. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Obtain medical care.

ADVICE TO DOCTOR: Treat symptomatically. Dermatitis due to lack of fat may have pain, burning and / or dry / split are also included. The central nervous system depression. Other symptoms may also occur such as headache, nausea, and loss of ability to coordinate movements. Irritation to the respiratory system may include. Symptoms burning pain in the nose and throat, coughing, temporary and / or difficulty breathing. If a substance into the lungs. Can cause various symptoms including cough, choking noise Weed from shortness of breath, chest discomfort, shortness of breath and difficulty breathing frequency and / or fever may affect the auditory system in hearing. Cause temporary hearing loss. Or symptoms of tinnitus.

Section 5: Fire Fighting Measures

Extinguishing Media:

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

Not suitable : None Known.

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fight fire from protected position or use unmanned hose holders or monitor nozzles. If safe to do so, move undamaged containers from fire area. Do not approach hot containers. Cool containers with water before handling. If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Heat or damage to containers can release flammable / poisonous gases. Ruptured containers will rocket.

Released gases can form explosive mixtures with air. Hazardous concentrations can accumulate in a confined space. Released gases can travel to source of ignition and flash back. Fire can produce irritating, poisonous and corrosive gases. Propellant is extremely flammable and heavier than air.

Hazards from combustion Products : Decomposition products may develop carbon dioxide, carbon monoxide, toxic and irritating gas, poisonous and acrid smelling.

Precautions / PPE High concentration of gas could cause dizziness or asphyxiation without warning. Released gases are harmful. Wear SCBA and protective gloves. If large amounts are involved, wear SCBA and chemical splash suit.

HAZCHEM Code 2YE



Section 6: Accidental Release Measures

Personal precautions:	Wear protective clothing, impervious gloves and safety glasses, Keep unprotected person away, Avoid breathing vapor or mist, Provide adequate ventilation.
Environmental Precautions :	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Methods and material for containment and cleaning up :	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15 m. All equipment used when handling the product must be earthed. If water is available, spray leaking containers to reduce ignition hazard and disperse gas. Isolate area until gas has dispersed. Ventilate area. Avoid release to the environment. Do not empty into drains. Absorb with liquid-binding material (sand, earth, diatomite, sawdust) and place in an appropriate waste disposal container dispose. Dispose of via a licensed waste disposal contractor and / or local regulator.

Section 7: Handling and Storage

Precautions for Safe Handling	Extremely flammable- Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Spray in a well ventilated area. Do NOT breathe vapor. Local exhaust ventilation may be necessary to minimize excessive vapor concentration, if levels are likely to be high or in a confined space. Avoid static charge and discharge with high concentrations and in confined space. Always wash hands with soap and water after handling. Work clothes should be laundered separately.
Precautions for Safe Storage:	Keep away from heat/spark/open flames/hot surfaces. No smoking. Keep out of reach of children. Store in a cool, dry, well ventilated area. Protect from sunlight and do not expose to temperatures exceeding 50 C. Do not pierce or burn this can, even when empty. Store away from corrosive products and incompatible material (Strong oxidizing agents and strong base) . Store in an upright position and protect containers against physical damage.

Section 8: Exposure Controls and Personal Protection

National Exposure Standards :	There is no established TLV for this product. Avoid exposure – obtain special instructions before use. ACGIH TLV (LPG) : 1,000 ppm (1,800 mg/m ³) TWA Propane is a simple asphyxiant
Engineering Controls :	Local exhaust ventilation may be necessary to minimize excessive vapor concentration, if levels are likely to be high or in a confined space. Use explosion-proof ventilation equipment.
Personal Protective Equipment :	Wear safety glasses and appropriate chemical resistance protective gloves. Wear respirator complying with AS1715 and AS1716 if concentration levels are high.

Section 9: Physical and Chemical Properties

Appearance	Aerosol, fine clear spray
Odour	Solvent like
pH	Not applicable
Vapour Pressure	0.3 – 0.5 mPa
Vapour Density	Not applicable
Boiling / Melting Point	Not applicable
Solubility	Not soluble

SAFETY DATA SHEET

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Specific Gravity	0.82 g/cm ³ approx. [30°C Conc.)
Flash Point	-104 to -60°C [Propellant]
Flammable limits: (LEL)%	1.8% to 2.2% in air (v/v) [Propellant]
(UEL)%	8.4% to 9.5% in air (v/v) [Propellant]
Ignition Temperature	405°C to 466°C [Propellant]

Section 10: Chemical Stability and Reactivity Information

Chemical stability:	Stable under normal ambient conditions of storage and use. Avoid heat sources.
Conditions to avoid:	Heat, flames and sparks. Avoid static charge and discharge with high concentrations and in confined space. Avoid damp conditions.
Incompatible Materials :	Strong oxidizing agents, Strong Base.

Section 11: Toxicological Information

Acute Toxicity

Acute toxicity (Oral)	: Bifenthrin ; LD ₅₀ = 54.5 mg/kg , Rat
Acute toxicity (Dermal)	: Iso-paraffinic Hydrocarbon ; LD ₅₀ > 3,160 mg/kg , Rabbit
Acute toxicity (Inhalation)	: Alphacypermethrin : LC ₅₀ = 0.0137 mg/l ,4 hours, Rat
Conclusion/Summary	: Acute toxicity inhalation Category 4 : LC₅₀ = 4.67 mg/l, 4 hour, Rat Acute toxicity Oral : LD₅₀ = 16,806.72 mg/kg.

Skin Corrosion/Irritation

Skin	: Alphacypermethrin and Bifenthrin irritation to skin
Conclusion/Summary	: Skin Corrosion/Irritation Category 3 = Mild irritant to skin

Serious eye damage/eye irritation

Eye irritation	: Alphacypermethrin causes serious eye irritation
	: Bifenthrin causes eye irritation
Conclusion/Summary	: Serious eye damage/eye irritation Not classified

Respiratory or Skin sensitization

Respiratory sensitization	: Alphacypermethrin and Bifenthrin may cause allergy or asthma Symptoms or breathing difficulties if inhaled
Skin sensitization	: Alphacypermethrin and Bifenthrin may cause allergic skin reaction
Conclusion/Summary	: Respiratory or Skin sensitization Not classified

Gem Cell Mutagenicity

Gem Cell Mutagenicity	: Bifenthrin may cause genetic defects
Conclusion/Summary	: Gem Cell Mutagenicity Not Classified

Carcinogenicity

Carcinogenicity	: Methylene Chloride Probable Human carcinogen - Human carcinogenicity data : Inadequate. - Animal carcinogenicity data : Sufficient.
Conclusion/Summary	: Carcinogenicity category 2 : Suspected of causing cancer



Reproductive toxicity

Reproductive toxicity	: Bifenthrin may damage fertility or the unborn child
Conclusion/Summary	: Reproductive toxicity : Not Classified

Specific Target Organ Toxicity
/Single Exposure

STOT / SE	: Bifenthrin may cause damage to organ
	: LPG may cause respiratory irritation or may cause drowsiness or dizziness
Conclusion/Summary	: STOT category 3 : may cause respiratory irritation or may cause drowsiness or dizziness

Specific Target Organ Toxicity
/Repeated Exposure

STOT / RE	: Bifenthrin Not classified as STOT / RE
Conclusion/Summary	: STOT / RE : Not classified

Aspiration Hazard

Aspiration Hazard	: Bifenthrin and Methylene Chloride may fatal if swallowed and enters airways
Conclusion/Summary	: Aspiration hazard Category 1 : may fatal if swallowed and enters airways

Section 12: Ecological Information

Acute aquatic toxicity

Acute hazard	: Bifenthrin ; L(E)C ₅₀ = 0.00015 mg/l , Fish (96 hours)
	: Alphacypermethrin ; L(E)C ₅₀ = 0.0028 mg/l , Fish (96 hours)
Conclusion/Summary	: Acute hazard Category : Acute 1 Very toxic to Aquatic life

Long-term hazard	: Bifenthrin as Long-term hazard category chronic 2
	: Alphacypermethrin as Long-term hazard category chronic 2
Conclusion/Summary	: Long-term hazard Category : Chronic 2 Toxic to Aquatic life with long lasting effects

Section 13: Disposal Considerations

Product

Method of disposal

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.

Packaging

Method of disposal

Do not pierce or burn, even when empty. Should be disposed of in accordance with local regulations and laws in force in the country or region.

SAFETY DATA SHEET

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Section 14: Transport Information

Regulation	UN Number	Proper shipping name	Classes	PG*	Label	Addition information
ADR	UN 1950	Aerosols	2.1	-		Hazchem code 2YE
IMDG	UN 1950	Aerosols. Marine pollutant Bifenthrin and Alphacypermethrin	2.1	-		Emergency schedules (Ems) F-D, S-U
IATA	UN 1950	Aerosols, flammable	2.1	-		Passenger and Cargo Aircraft Quantity limitation:75 Kg Packaging instructions : 203 Cargo Aircraft Only Quantity limitation: 150 Kg Packaging instructions : 203 Limited Quantities- Passenger Aircraft Quantity limitation:30 Kg Packaging instructions : Y203

Section 15: Regulatory Information

Law enforcement in Thailand.	Hazardous Substance Act BE 2535.
Types of hazardous materials.	3 (FDA Thailand)
FDA Registration No:	ฉย. ๖๑๙. 280/2554
Labelling according to EU guidelines	F+ : Extremely flammable Xn : Harmful N : Environment Hazard
Risk phrase(s)	R12 Extremely flammable. R20 Harmful by inhalation. R37 Irritating to respiratory system. R38 Irritating to skin. R45 May cause cancer. R49 May cause cancer by inhalation. R50 Very toxic to aquatic organisms. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



R65 May cause lung damage if swallowed
R67 Vapour may cause drowsiness and dizziness

Safety phrase(s)

S2 Keep out of reach of children.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe spray.
S24 Avoid contact with skin.
S29 Do not empty into drains.
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately.
S47 Keep at temperature not exceeding 50 °C.
S57 Use appropriate containment to avoid environment contamination.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container.

Section 16: Other Information

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