SECTION 1: IDENTIFICATION

1.1 Product Description

Product Name	**CHAINDRITE EXTRA STRENGTH CRAWLING INSECT SPRAY**	
Active Ingredient	Cypermethrin	0.20% w/w
	Imiprothrin	0.14% w/w
Benefit	Kill cockroaches, bedbugs, ants, spiders, fleas, millipedes, slaters, carpet beetles, millipedes, earwigs, wasps, flies, silverfish and clothes moth.	

1.2 Manufacturer and Distributors

Sherwood Corporation (Thailand) Public Company Limited

Address	90/1 Moo 9, Wellgrow Industrial Estate, Km.36 Bangna-Trad Rd., Bang Wua, Bang Pakong, Chachoengsao 24180 Thailand
Contact	**Tel.** (+66)38-522-302 **Fax.** (+66)38-522-311
Website	http://www.sherwood.co.th

1.3 Emergency Contact Tel. (+66)95-957-4010

SECTION 2: HAZARDS IDENTIFICATION

Classification according to GHS

: Flammable aerosol	Category 1
: Acute toxicity, oral	Category 5
: Acute toxicity, dermal	Category 5
: Skin Corrosion / Irritation	Category 2
: Aspiration Hazard	Category 1
: Specific target organ toxicity following, single exposure; Respiratory tract irritation	Category 3
: Specific target organ toxicity following, single exposure; Narcotic effects	Category 3
: Hazardous to the aquatic environment, acute hazard	Category 3
: Hazardous to the aquatic environment, long-term hazard	Category 2

Pictograms of GHS:



Signal Word: **Danger**

Hazard Statement

Physical

H222	: Extremely flammable aerosol.
H229	: Pressurized container: may burst if heated.

Health

H303	: May be harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H313	: May be harmful in contact with skin.
H315	: Cause skin irritation.
H335	: May causes respiratory irritation.
H336	: May causes drowsiness or dizziness.

Environment

H402	: Harmful to aquatic life.
H411	: 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

P210	: Keep away from heat / sparks / open flames / hot surfaces. - **No** smoking.
P211	: **DO NOT** spray on an open flame or other ignition source.
P251	: Pressurized container: **DO NOT** pierce or burn, even after use.
P261	: Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	: Wash hands thoroughly after handling.
P271	: Use only outdoors or in a well-ventilated area.
P273	: Avoid release to the environment.
P280	: Wear protective gloves.

Response

P301+P310	: IF SWALLOWED : Immediately call a POISON CENTER or doctor / physician.
P302+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.
P312	: Call a POISON CENTER / doctor / physician if you feel unwell.
P321	: Specific treatment (see supplemental first aid instruction on this label).
P331	: **DO NOT** induce vomiting.
P332+P313	: If skin irritation occurs: Get medical advice / attention.
P362	: Take off contaminated clothing and wash before reuse.
P391	: Collect spillage.

Storage

H403+P233	: Store in a well-ventilated place. Keep container tightly closed.
H405	: Store locked up.
P410+P412	: Protect from sunlight. **DO NOT** expose to temperatures exceeding 50°C / 122°F.

Disposal

P501 : Dispose of contents / container to approved method in accordance with local / regional / national / international regulations.

SECTION 3: INFORMATION ON INGREDIENTS

Component (s)	CAS Number	Concentration (% w/w)
Cypermethrin	52315-07-8	0.20
Imiprothrin	72963-72-5	0.14
Other Ingredients	-	Balance to 100.000

SECTION 4: FIRST AID MEASURES

Inhalation : Move patient to fresh air. If breathing is difficult, give artificial respiration and get medical attention immediately.

Skin contact : Remove contaminated clothing immediately. Rinse with plenty of water. Get medical attention immediately if irritation persist.

Eye contact : Wash with plenty of water. Remove contact lenses, remove it if it is not difficult. Open your eyes wide. So that the water flows for at least 15 minutes, get medical attention immediately.

Ingestion : **DO NOT** induce vomiting. Unless supervised by medical personnel. Should not be given anything by mouth to an unconscious patient. Get medical attention immediately and bring along the container, label or leaflet of product.

Advice to Doctor : Symptomatic treatment.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media Suitable : Water, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO_2)

Extinguishing Media Unsuitable : No data available.

Specific Hazards Rising from the Chemical : Decomposition products may produce carbon monoxide (CO) carbon dioxide (CO_2), toxic gases that are irritating and have a pungent odor. Gases produced by burning at high concentrations may cause fainting or unconscious.

Special Protective Action for Fire-Fighters : Wear self - contained breathing apparatus (Self - Contained Breathing Apparatus, SCBA) and chemical-protective clothing.

: Cool closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Remove people from the spill area.

: Remove sources of fuel.

: Avoid direct contact with skin and eyes.

: **DO NOT** breathe vapour.

: Remove contaminated clothes immediately.

Personal Protection	: Wear respiratory protective with organic vapour absorber, boots and rubber gloves.
Environmental Precautions	: Prevent material from flowing into soil, waterways, gutters and sewers. : Avoid releasing the product into the soil, waterways and environment.
Methods and Material for Containment and Cleaning Up	: Before storage ventilate the area of the leak. : After storage ventilate the area of the leak. : Absorb substance with sand, soil or inert substances. Store the absorbent in a tightly closed container. Show signs for disposal. : For smaller amounts: Pick up with suitable absorbent (e.g. sand, sawdust). : For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus. : Wash and clean up affected area after leak and store in a suitable container for waste disposal. : Do not allow water to enter the container. Spray water to reduce the vapors of the substance. : Dispose of contents / containers in accordance with local / regional / national / international regulations. Dispose of contents inside containers with approved methods and / or local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	: Avoid contact with skin, eyes and clothing. : Wash your hands thoroughly with soap and water after handling and before eating, drinking or smoking. : Remove contaminated clothing and equipment before entering the dining area. : Avoid prolonged contact with the substance. : Use the product in a well-ventilated area. : Clean hands and body after use.
Precautions for Safe Storage	: Keep container tightly closed. : Keep in a well-ventilated place, dry and cool. : Keep away from children, food, pets, flame, heat, sunlight and **DO NOT** expose to temperatures exceeding 50°C : Keep it in an upright position and protect the container against physical damage. : Keep away from corrosive products and incompatible materials (strong oxidizing agents, strong bases, strong acids).

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standard	: No data available.
Engineering Controls	: Local exhaust ventilation may be necessary to reduce the concentration of chemical vapors.
Personal Protective Equipment	: Wear appropriate specific chemical protective gloves such as nitrile rubber gloves, safety glass and organic vapour respirator. Clean tools after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance		: Clear liquid (Liquid).
Odor		: Characteristic odor.
Odor Exposure Limits		: No data available.
pH value		: No data available.
Melting / Freezing point		: No data available.
Boiling point / Range		: No data available.
Flash point		: <10°C.
Evaporation Rate		: No data available.
Flammability of Solid and Gas		: Flammable.
Flammable Limits	(LFL) %	: 9.0% v/v (LPG).
	(UFL) %	: 2.0% v/v (LPG).
Explosion Limits	(LFL) %	: No data available.
	(UFL) %	: No data available.
Vapour Pressure		: No data available.
Vapour Density (air = 1)		: No data available.
Relative Density (water = 1)		: No data available.
Partition Coefficient n-Octanol / water		: No data available.
Auto - Ignition Temperature		: 400 – 500°C (LPG).
Decomposition Temperature		: No data available.
Solubility in water		: Insoluble.
Specific Gravity / Density		: 0.740 - 0.770 Kg/L at 30 °C (Liquid).
Viscosity		: No data available.

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	: Keep away from flame, heat, sunlight and **DO NOT** expose to temperatures exceeding 50°C.
Incompatible Materials	: Strong oxidizing agents, strong acids and strong bases.
Hazardous Decomposition Product	: Combustion or thermal decomposition will turn into toxic gases (hydrocarbon compounds and carbon dioxides).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral	: LD_{50} = 4,742.70 mg/kg (rat) (Calculated)
Dermal	: LD_{50} = 4,709.23 mg/kg (rabbit) (Calculated)
Inhalation	: LC_{50} > 20.00 mg/L (4 hours in rat) (Calculated)

Skin Corrosion / Irritation	: Cause skin irritation.
Serious Eye Damage / Eye Irritation	: Not classified.
Sensitization, Respiratory	: Not classified.

Sensitization, Skin	: Not classified.
Germ Cell Mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive Toxicity	: Not classified.
Specific Target Organ Toxicity	
- Single Exposure	: May causes respiratory irritation. May causes drowsiness or dizziness.
- Repeat Exposure	: Not classified.
Aspiration Hazard	: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Acute hazards to the aquatic environment	: Harmful to aquatic life.
Long-term hazards to the aquatic environment	: Toxic to aquatic life with long lasting effects.
Persistence and Degradability	: No data available.
Bio-Accumulative Potential	: 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, public waterways, drains and sewers.
	: Should not produce waste contaminated soil or bodies of water.
Container Treatment Method	: Should be disposed of in accordance with local regulations and laws in force in the country or region.
	: **DO NOT** pierce or burn, even when empty.
	: **DO NOT** dispose of empty containers into public waterways.

SECTION 14: TRANSPORT INFORMATION

14.1 European Transport Information

Regulation	UN Number	Correct Shipping Name	Classes	PG*	Symbols	Remark
ADR	**UN 1950**	**Aerosols, flammable, (each not exceeding 1 L capacity)** (Contains Cypermethrin, Imiprothrin)	2.1	-		**Hazchem code** 2YE

IMDG	**UN 1950**	**Aerosols, flammable, (each not exceeding 1 L capacity)** (Contains Cypermethrin, Imiprothrin)	2.1	-		**<u>Emergency schedules (Ems)</u>** F-D, S-U
IATA	**UN 1950**	**Aerosols, flammable, (each not exceeding 1 L capacity)** (Contains Cypermethrin, Imiprothrin)	2.1	-		**<u>Limited Quantities - Passenger Aircraft</u>** Quantity limitation: 30 Kg Packaging instructions: LP200 **<u>Passenger and Cargo Aircraft</u>** Quantity limitation:75 Kg Packaging instructions: LP200 **<u>Cargo Aircraft Only</u>** Quantity limitation: 150 Kg Packaging instructions: LP200

Beware ensure transportation of the container tightly closed, no leak and overturned.
<u>DO NOT</u> delivery with food, fiber, oxidizing agent, strong acid, strong bases, etc.

SECTION 15: REGULATORY INFORMATION

Law Enforcement in Thailand : Hazardous substance act BE 2535.
: List of Hazardous Substances BE 2556, Announce from Ministry of Industry.
Types of Hazardous Material : Type 3 (Food and Drug Administration, Ministry of Public Health, Thailand)
FDA Registration No. : Thai FDA วอส. 397/2552

SECTION 16: OTHER INFORMATION

Reference : Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, UNITED NATIONS, New York and Geneva, 2009
: European Chemicals Agency; https://echa.europa.eu/
: Toxicology Data Network, U.S. National Library of Medicine; https://toxnet.nlm.nih.gov/
: National Institute of Technology and Evaluation;
: http://www.safe.nite.go.jp/english/ghs/ghs_index.html

: บัญชีรายชื่อวัตถุอันตราย กระทรวงอุตสาหกรรม;
https://www.jetro.go.jp/ext_images/thailand/thai/pdf/hazardlist13_tha.pdf
: Dangerous Goods Regulation (IATA-Resolution 618 Attachment "A") 54th Edition
: https://agashirinov.files.wordpress.com/2015/10/ekp000017565.pdf
: TRANSPORT OF DANGEROUS GOODS
: IATA Dangerous Goods Regulations, Training & Reference Manual

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