

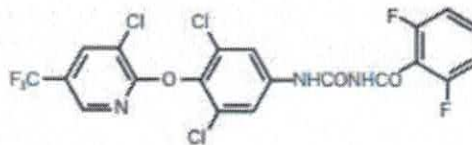


Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Trade Name: EXTERMINEX™
Common name: Chlorfluazuron
Chemical Name: N-[[3,5-dichloro-4-[3-chloro-5-(trifluoromethyl)pyridin-2-yl]oxyphenyl]carbamoyl]-2,6-difluorobenzamide
CAS-No.: 71422-67-8
Molecular Formula: C₂₀H₉Cl₃F₅N₃O₃
Structural Formula:



1.2 Identified uses of the substance or mixture

Chemical Class: Benzoylurea
Identified uses: Insecticide (Insect development inhibitor)

1.3 Details of the supplier of the safety data sheet

Distributor' name & address: Stekken Sdn. Bhd.
No 8, Jalan Temoh, Taman Kuning Emas,
35000 Tapah, Perak, Malaysia.
Tel. No.: 05 4018 388 (office hours)
Email: enquiry@stekken.com

1.4 Emergency telephone number

Emergency phone numbers (24h): Please call 999 (Malaysia Emergency Response Services, MERS)

2. HAZARDOUS IDENTIFICATIONS:

2.1 Classification of the substance or mixture

WHO Classification: Class U, product is unlikely to present acute hazard

GHS Classification





Physical Hazards: Not Classified
Health Hazards: Acute Oral (Not Classified)
Acute Dermal (Not Classified)
Inhalation (Category 4)
Dermal Irritation (Non-irritant)
Eye Irritation/Corrosion (Not Classified)
Skin Sensitization (Non-sensitizer)

Environmental Hazards: Acute Toxicity to the Aquatic (Not Classified)
Chronic Toxicity to the Aquatic (Not Classified)

2.2 Label Elements

Hazard Pictogram:



Signal Word: Warning

Hazard Statement: H332- Harmful if inhaled.

Precautionary Statement:

Prevention P261- Avoid breathing dust.
P271- Use only outdoors or in a well-ventilated area.

Response P304 + P340- IF INHALED- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312- Call a POISON CENTER or doctor/physician if you feel unwell.

Storage No precautionary statement.

Disposal No precautionary statement.

2.3 Other hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Ingredients:				
Chemical Name:	CAS No.	Proportion	TWA (mg/m³)	STEL (mg/m³)
Chlorfluazuron	71422-67-8	1g/kg	not set	not set
Alpha-cellulose	9004-34-6	994g/kg	not set	not set
Other (attractants)		5g/kg	not set	not set

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 days working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equaled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.





4. FIRST AID:

General Information:

You should call **Malaysia Emergency Response Services (MERS)** if you feel that you may have been poisoned, burned or irritated by this product. Consult the MERS on **999** (24 hours). Have this SDS with you when you call.

Eye Contact: Quickly and gently brush particles from eyes. No effects expected. Take special care if exposed person is wearing contact lenses. Rinse with clean running water for at least 15 minutes. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Skin Contact: Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 15 minutes or until chemical is removed. Wash with soap and water after use and before eating, drinking or smoking.

Ingested: Not likely to be toxic in amounts that could be ingested in a single dose. Choking or obstruction (due to inert ingredient) is the most likely hazard from a single dose.

Inhalation: First aid is not generally required. If in doubt, contact Malaysia Emergency Response Services or doctor.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES:

Specific Hazards Arising From The Chemical: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product, if scattered, may form flammable or explosive dust clouds in air. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

Unsuitable Extinguishing Media: Do not scatter spilled material with high-pressure water stream.

Fire Fighting Instruction: If a significant quantity of this product is involved in a fire, call the fire brigade. Do not scatter spilled material with high pressure water jets. Wear a self-contained respiratory apparatus and full protective fire-fighting gear.

Flammability Class: Combustible solid.

Flash Point: Combustible solid.



6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Protective Equipment and Emergency Procedures

Environmental Precautions: Prevent entry of spilled matter into drains or waterways.

Methods and Material for: Sweep up material and wrap in paper. Bury in a local authority landfill. If no landfill is available, bury below 500mm in a disposal pit.
Containment and Cleaning

7. HANDLING AND STORAGE:

Precautions for Safe: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.
Handling

Conditions for Safe: Product should be stored original container in a dry storage cool, well ventilated, secure area. Do not store above 122F (50C) for extended periods of time. Store away from other pesticides, feed and food. Keep out of reach of children, unauthorized persons and animals. Do not contaminate water, food, or feed by storage or disposal.
Storage, Including Any Incompatibilities

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

8.1 Control parameters e.g. permissible exposure limit

Exposure Limit:

Components <i>Komponen</i>	Exposure Guidelines <i>Garis Panduan Pendedahan</i>
Chlorfluazuron	TLV (mg/m ³)-Not determined STEL (mg/m ³)-Not determined

Biological Limit Values: No information available
(BLVs)





Acceptable Daily Intakes (ADI): ADI for Chlorfluazuron is set at 0.005mg/kg/day. The corresponding NOEL is set at 0.56mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

8.2 Appropriate engineering controls

Ventilation: When appropriate, such as during manufacturing, provide general and/or local exhaust ventilation to prevent exposure to active ingredient.

8.3 Individual protection measures, such as personal protective equipment

Eye Protection: Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection: We suggest that you routinely avoid contact with all chemical product and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber.

Respiratory Protection: Use a suitable and approved respirator when handling in a non-ventilated area





9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & Colour:	Powdered solid / Off white powder
Odour:	No odour
Boiling Point:	Not applicable
Freezing/Melting Point:	Decomposes before melting
Evaporation rate:	Not applicable
Flash Point:	Not observed at 250°C
Volatiles:	Nil at 100°C
Vapour Pressure:	Negligible at normal ambient temperatures
Vapour Density:	Not applicable
Specific Gravity:	No data
Water Solubility:	No data
pH:	4.31
Volatility:	Negligible at normal ambient temperatures
Coeff Oil/water Distribution:	No data
Decomposition temperature:	No data
Viscosity:	Not applicable
Dry Sieve:	55.98%

10. STABILITY AND REACTIVITY:

Reactivity:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Chemical Stability:	Stable under normal use and storage conditions.
Conditions to Avoid:	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatibilities:	Acids, bases, oxidising agents.
Hazardous Decomposition Product	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form hydrogen chloride gas, other compounds of chlorine. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation:	This product will not undergo polymerization reactions.





11. TOXICOLOGICAL INFORMATION:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Toxicity Data:
Acute Oral LD50 (Rat) > 5000 mg/kg (cut-off value)
Acute Dermal LD50 (Rat) > 5000 mg/kg (cut-off value)
Acute Inhalation LC50 (Rat) > 5 mg/l (cut-off value)
Dermal Irritation (Rabbit) - Non-irritant
Eye Irritation (Rabbit) - Non-irritant
Skin Sensitization (Guinea pig) – Non-sensitizer

* Assessment largely or completely based on data for formulation product.

Systemic (Other organs): Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Cancer Information: Does not contain carcinogens.

Teratogenic: Does not contain teratogens.

Reproductive Effects: Does not cause reproductive effects.

Mutagenicity: Does not cause mutation.

Routes of Exposure

Eye: No information available
Skin: No information available
Ingestion: No information available
Inhalation: No information available

Symptoms related to the physical, chemical and toxicological characteristics

Eye: No information available
Skin: No information available
Ingestion: No information available
Inhalation: No information available



12. ECOLOGICAL INFORMATION:

Assessment largely or completely based on data for active ingredient.

Persistence and Degradability

Does not leach in soil and is slowly degraded. Degradation occurs more rapidly in anaerobic than in aerobic conditions.

Aquatic Toxicity

Acute LC50 for fish is reported to be greater than the maximum saturation level.
Material is highly toxic to aquatic invertebrates on a static acute basis (LC50 < 0.1 mg/L).
Algal toxicity (EC50) for green algae is reported to be greater than maximum saturation level.



Avian Toxicity

Material is practically non-toxic to birds on an acute basis (LD50 >2000mg/kg).

Other Information

Non-toxic to bees. Non-toxic to earthworms.

13. DISPOSAL CONSIDERATIONS:

Waste/Product Disposal: Do not contaminate ponds, waterways or ditches with chemical or used container. Incinerate under controlled conditions in accordance with all local and national laws and regulations.

Container Disposal: Dispose of according to local regulations.

14. TRANSPORT INFORMATION:

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

15. REGULATORY INFORMATION:

Regulatory Status and Applicable Laws and Regulations

15.1 Safety, health and: Industry Code of Practice on Chemical Classification and Hazard
Environmental regulations Communication 2013 (ICOP). The Regulations is consistent with
/ legislation specific for Malaysia's commitment in implementing the Globally Harmonised
the substance or mixture System for Classification and Labelling of Chemicals (GHS) for
industrial workplace sector especially in supplying chemicals for use at
work in Malaysia.
Pesticide Classification: Class IV (Malaysian Pesticide Board)

16. OTHER INFORMATION:

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
TLV	Threshold Limit Value
STEL	Short-term exposure limit
LC	Lethal Concentration
LD	Lethal Dose
UN Number	United Nations Number

Date of preparation of the SDS: Jan 2016

Date of revision of the SDS: 01 March 2024 (valid for 5 years from this date)





**Key literature references
and sources for data used to
compile the SDS:**

1. Industry Code of Practice on Chemical and Hazard Communication (ICOP) 2014.
2. The Pesticide Manual, 12th Edition, 2000.
3. Guidelines for the Classification of Hazardous Chemical – DOSH.
4. Acute Oral Toxicity of Exterminex Termite Bait 0.1% w/w in Rat. Study Number 19527, 16 May 2018.
5. Acute Dermal Toxicity of Exterminex Termite Bait 0.1% w/w in Rat. Study Number 19528, 16 May 2018.
6. Acute Inhalation Toxicity of Exterminex Termite Bait 0.1% w/w in Rat. Study Number 19529, 16 May 2018.
7. Acute Dermal Irritation/Corrosion of Exterminex Termite Bait 0.1% w/w in Rabbit. Study Number 19530, 16 May 2018.
8. Acute Eye Irritation/Corrosion of Exterminex Termite Bait 0.1% w/w in Rabbit. Study Number 19531, 16 May 2018.
9. Skin Sensitization Test of Exterminex Termite Bait 0.1% w/w in Guinea Pigs (Maximization Test). Study Number 19532, 16 May 2018.

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

