

**FARMET**

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

**Company:** CHEMICAL TREATMENT COMPANY - **COTCHIM** -

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**2. IDENTIFICATION OF RISKS**

**Risk Phrases** : Harmful by inhalation and by ingestion.

**Inhalation** : Not considered hazardous by inhalation in normal conditions of use.

**Skin contact** : Not considered particularly dangerous at skin contact.

**Eye contact** : Not considered particularly dangerous to the eyes under normal conditions of use.

**Ingestion** : Must not come into contact with food or be ingested.

Risk of : Haemorrhage, Gastrointestinal (e), Urinary tract.

**3. COMPOSITION / INFORMATION ON COMPONENTS**

**Operating Name:** FARMET

**Nature of the product:**

Solid: Granules

Chlorophacinone 0.005%

**Composition:**

Chemical name	CAS No.	EC No	Classification	Concentration[%]
Chlorophacinone	3691-35-8	8 223-003-0	T +; R27 / 28 T; R23-48 / 24/25 N; R50-53	0,005

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**4. FIRST AID**

- Inhalation** : None.
- Skin contact** : Wash skin with soap and water.
- Eye contact** : In case of eye contact, rinse  
Immediately with clear water for 10-15 mn
- Ingestion** : Induce vomiting if it is perfectly fine  
conscious / alert.
- Emergency Medical Treatment** : Gastric lavage is recommended to ensure  
A complete emptying. This product is an Anti-coagulant.

**5. FIRE FIGHTING MEASURES**

- Extinguishing media** : All extinguishing agents are usable.
- Surrounding fires** : Cool exposed containers with water spray or mist.
- Fire protection** : Do not enter fire area without protective equipment, including  
respiratory protection
- Special Procedures** : Be careful when fighting any chemical fire.

**6. MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL DISPERSION**

- Personal precautions** : Provide adequate protection to cleaning crews.
- Environmental precautions** : Notify authorities if product enters drains or public waters.
- Methods for cleaning up** : Sweep up or collect spilled material and place in a suitable container for disposal.

**7. HANDLING AND STORAGE**

- General** : Avoid unnecessary exposure.
- Handling and Storage Precautions** : Product to be handled with good industrial hygiene and safety procedures.
- Storage** : Keep in a dry and cool place. Store in tightly closed containers.
- Handling** : Keep away from food and drinks including those for animals. Wash hands and  
bother exposed areas with mild soap and water before eating, drinking, smoking,  
and before leaving work.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Respiratory protection** : In case of risk of excessive dust production, wear an appropriate mask.
- Hand protection** : In case of repeated or prolonged contact, wear gloves.
- Skin protection** : No special clothing or skin protection is recommended under normal conditions of use.
- Eye protection** : Not required
- Ingestion** : Do not eat, drink or smoke while using.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Aspect**

- Form : Granules  
Color : Red  
Odor : Noticeable

**Security data**

- Molar mass : 374.82 g / mol  
Solubility in water : immiscible  
Solubility in solvents Organic : Soluble  
PH : Not concerned  
Relative vapor density : Not concerned  
Density : 0.38 g / cm<sup>3</sup>  
Flash point : Not applicable  
Melting point : 138 ° C  
Flammability : Not concerned  
Danger of explosion : Product is not explosive  
Upper explosion limit : Not determined  
Lower explosion limit : Not determined

**10. STABILITY AND REACTIVITY**

<b>Stability and Reactivity</b>	
Reactivity	: The mixture has no known violent reactions under normal handling conditions.
Chemical stability	: The mixture is stable under the recommended handling and storage conditions.
Possibility of reactions Hazardous	: None under normal conditions
Conditions to avoid	: humidity, temperature above 50 ° C, sunlight
Incompatible materials	: The mixture has no known violent reactions in contact with other substances.
Decomposition products Hazardous	: The mixture does not cause the known formation of hazardous decomposition material under normal storage conditions. Normal releases of normal organic combustion will be produced in case of pyrolysis or combustion: (bromine, carbon monoxide, ...)

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**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50 (rat)> 2500 mg / kg
Acute inhalation toxicity	: Not applicable
Acute toxicity by penetration	: LD50 (rat)> 2000 mg / kg
Dermal	
Skin irritation	: No Irritant
Eye irritation	: No Irritant
Skin sensitization	: Non-sensitizing
Carcinogenicity	: No carcinogenic effect highlighted
Mutagenicity	: No mutagenic effect demonstrated in vivo or in vitro.
Reproductive toxicity	: No toxic effect on reproduction.

**12. ECOLOGICAL INFORMATION**

**TOXICITY:**

Studies on the active substance Chlorophacinone

**ACUTE AQUATIC TOXICITY**

LC50 - Fish (96 hrs): 0.45 mg / l (Oncorhynchus Mykiss) and 0.71 mg / l (Leponis Macrochirus)  
CbE50 - Algae (72 hrs): 1.7 mg / l (Scenedesmus subspicatus)  
EC50 - Daphnia (48 h): 0.64 mg / L (Daphnia magna)  
Lower explosion limit: Not determined Stability and Reactivity

**TOXICITY ON TERRESTRIAL SPECIES**

Worm (Eisenia foetida) Acute NOEC:> 309 mg / kg of soil  
LOEC Acute:> 556 mg / kg of soil  
Acute LC50: 1000 mg / kg of soil

**TOXICITY ON THE BIRD**

Acute oral LD50: NOEL - 159 mg / kg body weight (Colinus virginianus)  
LD50 - 495 mg / kg (Colinus virginianus)  
Short-term diet NOEC - 10 mg / kg of food (Colinus virginianus)  
NOEC - <10 mg / kg body weight (Anas platyrhynchos)  
LD50 - 95 mg / kg body weight (Colinus virginianus)  
LD50 - 204 mg / kg of weight (Anas platyrhynchos)

**Persistence and degradability**

The substance is not considered to be biodegradable under environmental conditions or in sewage treatment processes. The substance is slowly degraded in the soil with DT50> 1 year under aerobic conditions and is not expected to volatilize or persist in the air in significant amounts. In an aqueous solution, it photolyses rapidly and widely and its main value of DT50 is 0.62 days. Photolysis tends to a large mineralization until degradation that declines at the end of the study (13 days). Surface photolysis of Chlorophacinone acts rapidly with an 11 day DT50 at 12 ° C. The substance is slowly degraded in the soil with an estimated DT50 of 128 days.

**Potential for bioaccumulation**

Log Kow is below 3 indicating that there should be no bioaccumulation in the food chain.

**Mobility in the soil**

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The substance is strongly and rapidly absorbed by the earth. The amount of substance absorbed by the soil is 36.6 to > 85.2% during the absorption phase. Chlorophacinone is unlikely to penetrate the surface of the earth and unlikely to reach the water table in significant quantities.

**Results of PBT and vPvB assessment**

Active substance Chlorophacinone: Not classified.

**Other adverse effects**

No other adverse effects known at the time of writing.

**13. CONSIDERATION RELATED TO ELIMINATION**

**Waste treatment methods**

Empty packages:

Dispose of empty and rinsed packaging in accordance with the requirements of the municipal waste disposal by-law, for example by the selective collection of household packaging waste if the packaging complies with the sorting instructions.

Packaging still containing product:

Dispose of unused products in accordance with the requirements of the disposal by-law of these Waste, for example by providing waste, recycling of packaging will be prohibited in this case.

Do not dispose of residues in sewers and waterways.

Prohibition to reuse the packaging.

**14. TRANSPORT INFORMATION**

**ONU number**

This product is not subject to the legislation on the transport of dangerous goods.

**UN proper shipping name**

This product is not subject to the legislation on the transport of dangerous goods.

**Class (es) of danger for transport**

This product is not subject to the legislation on the transport of dangerous goods.

**Packing group**

This product is not subject to the legislation on the transport of dangerous goods.

**Environmental hazards**

This product is not subject to the legislation on the transport of dangerous goods.

The active substance contained in this mixture is toxic to the aquatic environment.

**Special precautions for the user**

This product is not subject to the legislation on the transport of dangerous goods.

See also sections 7 and 8.

**Transport in bulk in accordance with Annex II of the MARPOL 73/78 Convention and the IBC**

Not concerned.

**15. REGULATORY INFORMATION**

**Symbol (s):** Xn: Harmful

**R-phrases (s):** R22: Harmful if swallowed.

**S Phrase (s):** S56: Dispose of this material and its container at hazardous or special waste collection point.

S1 / 2: Keep locked up and out of reach of children.

S13: Keep away from food and drinks, including those for animals.

S35: Only dispose of this material and its container with extreme caution.

S46: If swallowed, seek medical advice immediately and show this container or label.

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**Composition: Hazardous substance:** Chlorophacinone (ISO)

**16. OTHER INFORMATION**

**Wording of the R phrases mentioned in section 3:**

R 27/28 : Very toxic in contact with skin and if swallowed.

R23 : Toxic by inhalation.

R 48/23/24/25 : Toxic, danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Wording of the H phrases mentioned in section 3:**

H300 : Fatal if swallowed

H310 : Fatal in contact with skin

H331 : Toxic by inhalation

H372 : Causes damage to organs through prolonged exposure or exposure extended.

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

**Abbreviations:**

CLP : Classification, Labeling and Packaging - Classification, Labeling and Packaging

LD50 : Lethal dose 50%

LC50 : Lethal concentration 50%

LLNA : Local Lymph Node Assay

NOEL : No observable level effect

NOEC : No observed effect concentration

EC50 : Effective concentration 50%

PBT : Persistent, bioaccumulative, toxic

VPvB : Very Persistent, very Bioaccumulative (very persistent, very bioaccumulative)