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1. Identification of the substance and the company

1.1. Identification of the substance

Product name: **Redentin® 75 RB**

REACH-No: **N/A**

CAS-No: **N/A**

EU-No: **N/A**

REANAL Product Number: **27603**

1.2. Application of the substance

To be used for crop protection against field mice in cultivated lands (field crops, vineyards, orchards, forestry nurseries) and also in pastures and non-cultivated lands.

1.3. Identification of the company

Company identification:

Reanal Pharmaceutical and Finechemical Private Ltd

Address: HUNGARY, H-1147 Budapest, Telepes u. 53.

Telephon (during working hours): (36-1) 467-7500 Fax.: (36-1) 252-1339

E-mail: QA@reanal.hu

2. Hazard statements

2.1. Hazard symbols and-signs:

T



Toxic

Risk phrases:

21 Harmful in contact with skin.

25 Toxic if swallowed.

2.2. GHS hazard symbols and-signs:



Toxic



Irritate

DANGER!

*GHS sentences***Health hazards:**

H312 Harmful in contact with skin.
H301 Toxic if swallowed.

EU hazard statements:

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

General precautionary statements:

P102 Keep out of reach of children

Prevention precautionary statements:

P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response precautionary statements:

P301 IF SWALLOWED
P310 Immediately call a POISON CENTER or doctor/physician
P330 Rinse mouth
P302 IF ON SKIN
P352 Wash with soap and water
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P363 Wash contaminated clothing before reuse

3. Composition / Information on ingredients

Molecular formula:	N/A	CAS No.:	N/A
Relative molecular weight:	N/A	EU No.:	N/A
Active ingredient:	Chlorophacinone		
Composition:			
Chlorophacinone, on broken corn	3691-35-8		0.0075%

4. First aid measures**General:**

Remove victim from the exposed area immediately, if necessary make lay him/her comfortable and loosen tight clothing. Cover up injured person, do not allow to cool. Wash contaminated clothing before reuse.

Antidote of the active agent (chlorophacinone) is K1 vitamine (available as intravenous injection or chewing tablets with phytonadionum active agent).

Keep patient strictly in rest as continued movement enhances the effect of cholinesterase inhibition.

After inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

After swallowing:

If swallowed, wash out mouth with water provided person is conscious. Let the patient drink 0.3-0.6 liter water and activated carbon. Induce vomiting, repeat it 2-3 times. Finally give activated carbon with salted water and laxative. Never give anything by mouth to an unconscious person.

Do not give milk, fat, oil, alcoholic beverage!

After eye contact:

In case of contact immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelid with fingers. Drop 8-10 drops of 1% Lidocain solution into the eye. Get medical attention if irritation persists.

After skin contact:

In case of skin contact, immediately wash skin soap and copious amount of water.

Notes to the physician:

Antidote: vitamin K1. If the acute toxic effect is survived, the chances of complete recovery are very good

provided that subdural haemorrhages or vascular lesions in other tissues do not produce secondary effects.

5. Fire fighting measures

Combustible. Use water spray, carbon dioxide, dry chemical powder, foam extinguisher. Emits toxic fumes under fire conditions. Use water spray to cool containers under fire conditions. Use extinguishing media appropriate to surrounding fire conditions.

6. Accidental release measures

Close contaminated area. Do not allow contamination to get to drain or any surface water, dispose of this material and its container at hazardous or special waste collection point. Only authorised person can order the decontamination. Wear self-contaminated breathing apparatus, chemical safety goggles, rubber boots and heavy rubber gloves according to degree of contamination. Collect spilled material, sweep up, place in container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Containers out of use keep closed. Store in labelled container, in a cool, dry place. Stow away on carriage from food and feedstuffs.

Storage temperature: **2-25 °C**

8. Exposure controls / Personal protection

Exposure controls:

Avoid contact with eyes, skin and clothing. Do not breathe dust. When working do not eat, drink or smoke. Take care of bathing facilities with warm water after work. Wash thoroughly after handling.

Personal protective equipment:

Protective clothing.

Eye protection:

Chemical safety goggles.

Hand protection:

Chemical-resistant rubber gloves.

Respiration protection:

Face-mask respirator is required when dusts are generated.

Specific control parameters

MAK (mg/m³): **N/A**

9. Physical and chemical properties

Appearance:	Red, broken maize grains
Form:	Solid
Colour:	Red
Odour:	Odorless
Boiling point [°C]:	N/A
Melting point [°C]:	N/A
Solubility in water [°C]:	N/A
Bulk density [kg/m ³]:	N/A
Viscosity (dynamic, 20°C) [mPa*s]:	N/A
Flash point [°C]:	N/A
Ignition temperature [°C]:	N/A
Explosion limits [V/V%]:	N/A
Optical rotation ($\alpha_{20/D}$):	N/A

10. Stability and reactivity

Incompatibilities:

Strong oxidising agents.

Decomposition products:

Thermic decomposition may produce carbon monoxide, carbon dioxide, toxic fumes of chlorine compounds.

Hazardous reactions:

No dangerous reactions known.

11. Toxicological information

Acute toxicity:

Harmful if swallowed or absorbed through skin. Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Danger of cumulative effects. May cause bleeding, causes haemorrhage. Material may be extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Chronic effects: Possible risk of congenital malformation in the fetus.

Irritation data:

The material can irritate and damage the mucous membranes and upper respiratory tract, eyes and skin.

Toxicity data:

ORL-RAT LD₅₀ (male rat): 118,5 mg/kg.bw

Acut dermation LD₅₀ (rat): >10,5 g/kg

Skin irritation (rabbit): moderately irritative (chlorophacinone)

Eye irritation (rabbit): slightly irritative (chlorophacinone)

12. Ecological information

Chlorophacinone degraded in soil to 32% in 12 weeks.

Futher ecological data:

Aquatic organisms:

LC50 (carp, pike, other herbivorous freshwater fishes): >500 mg/lit

LC50 Daphnia Magna: >1500 mg/lit

EC50 growth inhibition of green algae: 289 mg/lit

Harmful to aquatic organisms. Required safety distance from surface waters: minimum 200 m.

Danger to bees:

Negligible risk to bees.

Danger to birds and wild animals:

Negligibly dangerous to birds, moderately dangerous to other vertebrates.

13. Disposal information

Consult state, local or national regulations for proper disposal. Dispose of this material and its container at hazardous or special waste collection point. Unused material, used packing should be incinerated in a special furnace designed for this purpose.

Disposal must be made according to official regulation. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Chemicals must be disposed of in compliance with the respective national regulations.

14. Transport information

ADR/RID: **9, PG III,(E)**

IMDG: **9/III.**

IATA: **9/III.**

CAO: **914**PAX: **914**UN: **3077** Environmentally hazardous substance, solid, n.o.s. (Redentin 75 RB)

15. Regulatory information

Hazard symbols:

T Toxic

Risk phrases:

21 Harmful in contact with skin.

25 Toxic if swallowed.

Safety phrases:

1 Keep locked up.

2 Keep out of reach of children.

13 Keep away from food, drink and animal feeding stuffs.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SP1 Do not contaminate waters with pesticide or with its packaging materials.

SPr2 The area treated with pesticide must be marked. Attention must be drawn to the risk of poisoning by anticoagulant and also the applicable antidote.

Labelling according to EC Directives.

16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Reanal shall not be held liable for any damage resulting from handling or from contact.