



RACUMIN FOAM

Version 1 / NL
102000025363

1/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name RACUMIN FOAM
Product code (UVP) 80260997

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Rodenticide, Insecticide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience SA-NV
Energieweg 1
PO box 231
3640 AE Mijdrecht
Netherlands

Telephone +31(0)297-280 307
Telefax +31(0)297-280 299
Responsible Department Email: NL.CustomerServices@bayer.com

1.4 Emergency telephone no.

In case of poisoning Exclusively for prof. emergency personnel
Nationaal Vergiftigingen Informatie Centrum (NVIC)
+31(0)30-274 8888

In all other cases Bayer CropScience
During business hours: +31(0)297-280 307
Outside business hours: +31(0)6-533 724 90

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Flammable aerosols: Category 1
H222 Extremely flammable aerosol.

Eye irritation: Category 2
H319 Causes serious eye irritation.

2.2 Label elements

Labelling as prescribed by the "College voor de Toelating van Gewasbeschermingsmiddelen en Biociden" (CTGB) based on national legislation and on data supplied by the manufacturer.



Signal word: Warning

**RACUMIN FOAM**Version 1 / NL
1020000253632/11
Revision Date: 09.02.2016
Print Date: 09.02.2016**Hazard statements**

H222 Extremely flammable aerosol.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P264 Wash hands thoroughly after handling.
 P280 Wear eye protection/ face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
 P501 Dispose of contents/container to a collection site for dangerous and special waste.

2.3 Other hazards

Pressurised container, heating will cause pressure rise with a risk of bursting.
 Because of antivitamin K properties of the active ingredient, absorption can inhibit blood coagulation and cause haemorrhagic syndrome.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature**

Aerosol dispenser (AE)
 Coumatetralyl 0,4 %

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		Regulation (EC) No 1272/2008	
Coumatetralyl	5836-29-3 227-424-0	Acute Tox. 1, H330 Acute Tox. 2, H300 Acute Tox. 2, H310 STOT RE 1, H372 Aquatic Chronic 3, H412	0,4
Isotridecylalcohol-6-ethoxylate	69011-36-5 500-241-6	Acute Tox. 4, H302 Eye Dam. 1, H318	> 1 – < 3
Glycerine	56-81-5 200-289-5	Not classified	> 1
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas 1, H220 Press. Gas	> 1

**RACUMIN FOAM**Version 1 / NL
102000025363

3/11

Revision Date: 09.02.2016
Print Date: 09.02.2016

Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Press. Gas Flam. Gas 1, H220	> 1
--------	--	---------------------------------	-----

Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. Place and transport victim in stable position (lying sideways). In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
Skin contact	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	If large amounts are ingested, the following symptoms may occur: State of shock, Nose bleeding, Bloody vomiting, Abdominal pain, Back pain Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).
-----------------	--

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically. Antidote: Vitamine K1. Cases of severe poisoning may require the usual measures like application of blood products or transfusions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
------------------	---



RACUMIN FOAM

Version 1 / NL
102000025363

4/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet

5.2 Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective equipment for firefighters	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
Further information	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labelled and tightly closed container.

6.4 Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

Advice on protection The product is extremely flammable. Keep away from heat and sources

**RACUMIN FOAM**Version 1 / NL
102000025363

5/11

Revision Date: 09.02.2016

Print Date: 09.02.2016

against fire and explosion	of ignition. Take measures to prevent the build up of electrostatic charge. Fire or intense heat may cause violent rupture of packages.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).
7.2 Conditions for safe storage, including any incompatibilities	
Requirements for storage areas and containers	BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only.
Advice on common storage	Keep away from food, drink and animal feedingstuffs.
Suitable materials	Aluminium with interior coating
7.3 Specific end use(s)	Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Coumatetralyl	5836-29-3	0,01 mg/m ³ (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

8.2 Exposure controls**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Respiratory protection is not required under anticipated circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**RACUMIN FOAM**Version 1 / NL
102000025363

6/11

Revision Date: 09.02.2016
Print Date: 09.02.2016

Personal protective equipment is not normally required. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0,4 mm
Directive	Protective gloves complying with EN 374.

Eye protection

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.
Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.
Wear standard coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	aerosol
Colour	dark blue
Odour	weak, characteristic
Density	ca. 0,95 g/cm ³ at 20 °C
Water solubility	miscible
Partition coefficient: n-octanol/water	Coumatetralyl: log Pow: 1,5

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.



RACUMIN FOAM

Version 1 / NL
102000025363

7/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

- 10.4 Conditions to avoid** Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials** Store only in the original container.
- 10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.
-

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute oral toxicity** ATE (Rat) > 2.000 mg/kg
ATE – acute toxicity estimate
Calculation method
- Acute inhalation toxicity** ATE (Rat) > 5,0 mg/l
ATE – acute toxicity estimate
Calculation method
- Acute dermal toxicity** ATE (Rat) > 5.000 mg/kg
ATE – acute toxicity estimate
Calculation method
- Skin irritation** No skin irritation (Rabbit)
The information is derived from the properties of the individual components.
- Eye irritation** Irritating to eyes. (Rabbit)
The information is derived from the properties of the individual components.
- Sensitisation** Non-sensitizing. (Guinea pig)
The information is derived from the properties of the individual components.

Assessment repeated dose toxicity

Coumatetralyl caused inhibition of blood coagulation possibly causing hemorrhagic syndrome in animal studies. The toxic effects of Coumatetralyl are related to antivitamin K properties.

Assessment mutagenicity

Coumatetralyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Coumatetralyl is not considered carcinogenic.

Assessment toxicity to reproduction

Coumatetralyl is not considered a reproductive toxicant at non-maternally toxic dose levels.

Assessment developmental toxicity

Coumatetralyl did not cause developmental toxicity in rats and rabbits.



RACUMIN FOAM

Version 1 / NL
102000025363

8/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 53 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient coumatetralyl.
- Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) > 14 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient coumatetralyl.
- Toxicity to aquatic plants** IC50 (Desmodesmus subspicatus (green algae)) > 18 mg/l
Growth rate; Exposure time: 96 h
The value mentioned relates to the active ingredient coumatetralyl.

12.2 Persistence and degradability

Biodegradability Coumatetralyl:
Not rapidly biodegradable

Koc Coumatetralyl: Koc: 453

12.3 Bioaccumulative potential

Bioaccumulation Coumatetralyl: Bioconcentration factor (BCF) 3 - 11
Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Coumatetralyl: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Coumatetralyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological information No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging Ensure aerosol container is empty before disposal.
Not completely emptied packagings should be disposed of as hazardous waste.
Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.



RACUMIN FOAM

Version 1 / NL
102000025363

9/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

Waste key for the unused product **16 05 04*** gases in pressure containers (including halons) containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number	1950
14.2 Proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Environm. Hazardous Mark	NO
Hazard no.	NOT APPLICABLE.
Tunnel Code	D

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number	1950
14.2 Proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Marine pollutant	NO

IATA

14.1 UN number	1950
14.2 Proper shipping name	AEROSOLS, FLAMMABLE
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Environm. Hazardous Mark	NO

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Further information

WHO-classification: III (Slightly hazardous)

Registration number 14585 N

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

**RACUMIN FOAM**Version 1 / NL
102000025363

10/11

Revision Date: 09.02.2016
Print Date: 09.02.2016**SECTION 16: OTHER INFORMATION****Text of the hazard statements mentioned in Section 3**

H220	Extremely flammable gas.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H372	Causes damage to organs (Blood) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



RACUMIN FOAM

Version 1 / NL
102000025363

11/11
Revision Date: 09.02.2016
Print Date: 09.02.2016

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 2015/830. Section 16: Other Information.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.