

Revision nr. 8 Dated 29/08/2022 Printed on 29/08/2022 Page n. 1/16 Replaced revision:7

BROCUM PELLET

Safety Data Sheet According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier **BROCUM PELLET** Product name IT/2014/00231/AUT Registration n° UFĬ X800-F0P9-G005-NF4K 1.2. Relevant identified uses of the substance or mixture and uses advised against Ready-to-use rodenticide bait in pellets. Intended use Identified Uses Industrial Professional Consumer Rodenticide $\mathbf{\mathbf{V}}$ **Uses Advised Against** All uses other than those recommended 1.3. Details of the supplier of the safety data sheet Name COLKIM S.r.I. Full address Via Piemonte, 50 **District and Country** 40064 OZZANO EMILIA (BO) Italia Tel. 051 / 799445 Fax 051 / 797555 e-mail address of the competent person responsible for the Safety Data Sheet info@colkim.it COLKIM S.r.I. - Via Piemonte, 50 - 40064 OZZANO E. (BO) Supplier: 1.4. Emergency telephone number

For urgent inquiries refer to **118**

Contact a poison control center:

| Nane | City | Address | Zip code | Phone |
|----------------------------------------------------|---------|-----------------------------|----------|-------------|
| CAV "Osp. Pediatrico Bambino Gesù" | Roma | P.zza Sant`Onofrio, 4 | 00165 | 06 68593726 |
| Az. Osp. Univ. Foggia | Foggia | V.le Luigi pinto, 1 | 71122 | 0881 732326 |
| Az. Osp. "A. Cardarelli" | Napoli | Via A. Cardarelli, 9 | 80131 | 081 7472870 |
| CAV Policlinico "Umbero I" | Roma | V.le del policlinico, 155 | 00161 | 06 49978000 |
| CAV Policlinico "A. Gemelli" | Roma | Largo Agostino Gemelli, 8 | 00168 | 06 3054343 |
| Az. Osp. "Careggi" U.O. Tossicologia Medica | Firenze | Largo Brambilla, 3 | 50134 | 055 7947819 |
| CAV Centro Nazionale di Informazione Tossicologica | Pavia | Via Salvatore Maugeri, 10 | 27100 | 0382 24444 |
| Osp. Niguarda Ca' Granda | Milano | P.zza Ospedale Maggiore,3 | 20162 | 02 66101029 |
| Azienda Ospedaliera Papa Giovanni XXII | Bergamo | P.zza OMS, 1 | 24127 | 800883300 |
| CAV centro antiveleni Verona | Verona | Piazzale Aristide Stefani,1 | 37126 | 800011858 |

SECTION 2. Hazards identification



2.1. Classification of the substance or mixture

COLKIM S.r.I.

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a product is classified as bazardous pursuant to the provision

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication: Reproductive toxicity, category 1A H360D Specific target organ toxicity - repeated exposure, category 2 H373

May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

| H360D H373 | May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. Restricted to professional users. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| | |

Precautionary statements:

| P102 | Keep out of reach of children. |
|-----------|---------------------------------------------------------------------------------|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P280 | Wear protective gloves/ protective clothing / eye protection / face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice / attention. |
| P501 | Dispose of contents/container according to national regulation |
| | · · · · |

Contains:

BRODIFACOUM

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures



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Contains:

| Identification CALCIUM SULPHATE DIHYDRATE | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|-------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| INDEX - EC 231-900-3 | $3 \le x < 3,5$ | |
| CAS 10101-41-4 POLYETHYLENGLYCOL | | |
| INDEX - EC 500-038-2 CAS 25322-68-3 ETHANEDIOL | 1,5≤x< 2 | EUH210 |
| INDEX 603-027-00-1 EC 203-473-3 CAS 107-21-1 BRODIFACOUM | 0 ≤ x < 0,05 | Acute Tox. 4 H302 STA Oral: 500 mg/kg |
| INDEX - | 0,003 ≤ x < 0,02 | Repr. 1A H360D, Acute Tox. 1 H300, Acute Tox. 1 H310, Acute Tox. 1 H330, STOT RE 1 H372, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10 |
| EC 259-980-5 CAS 56073-10-0 | | Repr. 1A H360D: ≥ 0,003%, STOT RE 1 H372: ≥ 0,02%, STOT RE 2 H373: ≥ 0,002% LD50 Oral: >0,4 mg/l/4h, LD50 Dermal: >3,2 mg/l/4h, STA Inhalation |
| REACH Reg. 607-172-00-1 DENATONIUM BENZOATE | | mists/powders: 0,005 mg/l |
| CAS. 3734-33-6 | x = 0,001 | Skin Irrit.2 H315, Eye Dam.1 H318, Aquatic Chronic.3 H412, Acute Tox.4 H302, Acute Tox.4 H332 |
| CE 223-095-2 INDEX Nr. Reg. | | |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

If ingested, administer vitamin K1 orally or intramuscularly as indicated in the case of an overdose of bishydroxycoumarin. Repeat as needed based on monitoring of prothrombin times.



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any



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incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

| ITA GBR EU | Italia United Kingdom OEL EU | | EH40/2005 Worl Directive (EU) 20 Directive (EU) 20 | ivo 9 Aprile 2008, kplace exposure li 022/431; Directive 017/2398; Directiv ective 2000/39/EC | mits (Fourth Edit (EU) 2019/1831 e (EU) 2017/164 | ; Directive (EU) 2 ; Directive 2009/ | 161/EU; Directive | ve (EU) 2019/98 2006/15/EC; Di | 3; rective |
|------------------|------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|--------------------------|-----------------------------------|---------------------|
| | TLV-ACGIH | | ACGIH 2021 | | | | | | |
| | | DRATE | | | | | | | |
| | Limit Value | | | | | | | | |
| Туре | | Country | TWA/8h | | STEL/15min | | Remarks / Observation | ns | |
| | | | mg/m3 | ppm | mg/m3 | ppm | | | |
| WEL | | GBR | 10 | | | | INHAL | | |
| NEL | | GBR | 4 | | | | RESP | | |
| TLV-ACGIH | | | 10 | | | | | | |
| Predicted no- | effect concentration - | PNEC | | | | | | | |
| Normal value | of STP microorganis | ms | | | 100 | mg/ | /I | | |
| Health - De | rived no-effect le | vel - DNEL / E Effects on consumers | DMEL | | | Effects on workers | | | |
| Route of expo | osure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | 11,4 mg/kg bw/d | | | | | | |
| Inhalation | | | 3811 mg/m3 | | 5,29 mg/m3 | | 5082 mg/m3 | | 21,17 mg/m |
| ETHANEDI | OL Limit Value | | | | | | | | |
| Туре | | Country | TWA/8h | | STEL/15min | | Remarks / Observation | ns | |
| | | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLEP | | ITA | 52 | 20 | 104 | 40 | SKIN | | |
| WEL | | GBR | 52 | 20 | 104 | 40 | SKIN | | |
| OEL | | EU | 52 | 20 | 104 | 40 | SKIN | | |
| TLV-ACGIH | | | | 25 | | 50 | | | |
| TLV-ACGIH | | | | | 10 | | INHAL | | |
| BRODIFAC | OUM Limit Value | | | | | | | | |
| Туре | | Country | TWA/8h | | STEL/15min | | Remarks / Observation | ns | |
| | | | mg/m3 | ppm | mg/m3 | ppm | | | |
| TLV-ACGIH | | | 0,002 | | | | | ACGIH 2 | 011 |
| Predicted no- | effect concentration - | PNEC | | | | | | | |

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| Normal value in fresh water | 4 | mg/l |
|---------------------------------------|----|-------|
| Normal value for fresh water sediment | 43 | mg/kg |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

| | Engineering controls are used to remove a hazard or place a barrier between the engineering controls can be highly effective in protecting workers and will typically provide this high level of protection. The basic types of engineering controls are: Proway a job activity or process is done to reduce the risk. Enclosure and/or isolation of hazard "physically" away from the worker and ventilation that strategically "adds" an Ventilation can remove or dilute an air contaminant if designed properly. The design particular process and chemical or contaminant in use. Employers may need to u employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexpost Correct fit is essential to obtain adequate protection. Provide adequate ventilation in contaminants generated in the workplace possess varying "escape" velocities which, of fresh circulating air required to effectively remove the contaminant. | be independ ocess controls f emission so ad "removes" n of a ventila use multiple ure exists, we n warehouse | ent of worker interactions to s which involve changing the urce which keeps a selected air in the work environment. ation system must match the types of controls to prevent ear SAA approved respirator. or closed storage areas. Air |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Type of Contaminant: | | Air Speed: |
| | solvent, vapours, degreasing etc., evaporating from tank (in still air) | | 0.25-0.5 m/s (50-100 f/min) |
| 8.2.1 APPROPRIATE | aerosols, fumes from pouring operations, intermittent container filling, low speed transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity in active generation) | | 0.5-1 m/s (100-200 f/min.) |
| ENGINEERING CONTROLS | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher discharge (active generation into zone of rapid air motion) | ⁻ dusts, gas | 1-2.5 m/s (200-500 f/min) |
| | grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released a velocity into zone of very high rapid air motion). | t high initial | 2.5-10 m/s (500-2000 f/min.) |
| | Within each range the appropriate value depends on: | | |
| | Lower end of the range | Upper end c | |
| | 1: Room air currents minimal or favourable to capture | | room air currents |
| | 2: Contaminants of low toxicity or of nuisance value only | | ants of high toxicity |
| | 3: Intermittent, low production. 4: Large hood or large air mass in motion | | luction, heavy use od - local control only |
| | Simple theory shows that air velocity falls rapidly with distance away from the open generally decreases with the square of distance from the extraction point (in simple extraction point should be adjusted, accordingly, after reference to distance from the the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for 2 meters distant from the extraction point. Other mechanical considerations, pr extraction apparatus, make it essential that theoretical air velocities are multiplied systems are installed or used. | le cases). The contamination of extraction of oducing perf | erefore the air speed at the ng source. The air velocity a solvents generated in a tank ormance deficits within the |
| 8.2.2 PERSONAL PROTECTION | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. Contact lenses may pose a speci and concentrate irritants. A written policy document, describing the wearing of lenses for each workplace or task. This should include a review of lens absorption and ad and an account of injury experience. Medical and first-aid personnel should be traine | s or restriction sorption for t | ns on use, should be created he class of chemicals in use |



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| | soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - frequency and duration of contact |
| | - chemical resistance of glove material - glove thickness |
| | - dexterity. Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). - When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves |
| | for long-term use. -Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: |
| | Excellent when breakthrough time > 480 min. Good when breakthrough time > 20 min. Fair when breakthrough time < 20 min. |
| | - Poor when glove material degrades |
| | For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the |
| | task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: -Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. -Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where |
| | there is abrasion or puncture potential. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. |
| Body protection | See Other protection below |
| Other protection | Overalls.P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. |
| Environmental | Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with |
| exposure controls | environmental protection legislation. Product residues must not be discharged without control into wastewater or water courses. |

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--------------------------------|----------------|-----------------------------------------------------------------------------------|
| Appearance | Solid-pellet | Method:OPPTS 830.6303 |
| Colour | green | Method:OPPTS 830.6302 |
| Odour | characteristic | Method:OPPTS 830.6304 |
| Odour threshold | not available | Reason for missing data:Determination not required for safe use of the product |
| Melting point / freezing point | not available | Reason for missing data: Determination not |



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required for safe use of the product

| | | required for safe use of the product |
|-------------------------------------------------|--------------------------------------|---------------------------------------------|
| Initial boiling point | not available | Reason for missing data: Determination not |
| | | required for safe use of the product |
| | | Reason for missing data: Determination not |
| | | required for safe use of the product |
| Flammability | not applicable | Reason for missing data. The product is not |
| | | flammable |
| Lower explosive limit | not applicable | Reason for missing data:Not applicable to |
| | | solids |
| Upper explosive limit | not applicable | Reason for missing data:Not applicable to |
| | | solids |
| Flash point | not available | Reason for missing data:Not applicable to |
| | | solids |
| Auto-ignition temperature | not applicable | Reason for missing data:Not applicable to |
| | | solids |
| Decomposition temperature | not available | Reason for missing data: The mixture is not |
| | | self-reactive |
| pH | 6,91 | Method:OECD test 122 |
| Kinematic viscosity | not applicable | Reason for missing data:Not applicable to |
| Discussion in a state | and as a link in | solids |
| Dynamic viscosity | not available | Reason for missing data:Not applicable to |
| Calubility | increasing a line to write surgets a | solids |
| Solubility | immiscible with water | |
| Partition coefficient: n-octanol/water | not applicable | Reason for missing data: Not determinable |
| | | for mixtures |
| Vapour pressure | not available | Reason for missing data:Determination not |
| | | required for safe use of the product |
| Density and/or relative density | 1,308 g/cm3 | Method:OECD test 109 |
| Relative vapour density | not applicable | Reason for missing data:Not applicable to |
| | | solids |
| Particle characteristics | | |
| Median equivalent diameter | | |
| • | | |
| Remark: | The product is presented as a | |
| | single compact block | |
| | | |
| 9.2. Other information | | |
| | | |
| 9.2.1. Information with regard to physical haza | | |
| 9.2.1. Information with regard to physical haza | alu classes | |
| | | |
| Information not available | | |
| | | |
| 9.2.2. Other safety characteristics | | |
| | | |
| Funda sharan anti-a | and an all a shife | |
| Explosive properties | not applicable | |

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

not applicable

POLYETHYLENGLYCOL

Oxidising properties

Decomposes slowly at high temperatures in the presence of air.

ETHANEDIOL

In the air absorbs moisture.Decomposes at temperatures above 200°C/392°F.



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10.2. Chemical stability

The product is stable in normal conditions of use and storage.

BRODIFACOUM

Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ETHANEDIOL

Risk of explosion on contact with: perchloric acid.May react dangerously with: chlorosulphuric acid,sodium hydroxide,sulphuric acid,phosphorus pentasulphide,chromium (III) oxide,chromyl chloride,potassium perchlorate,potassium dichromate,sodium peroxide,aluminium.Forms explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

POLYETHYLENGLYCOL

Avoid contact with: oxidising agents,concentrated inorganic acids.

ETHANEDIOL

Avoid exposure to: sources of heat, naked flames.

BRODIFACOUM

Avoid exposure to: light,heat.

10.5. Incompatible materials

BRODIFACOUM

Incompatible with: strong oxidants.

10.6. Hazardous decomposition products

ETHANEDIOL

May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.

BRODIFACOUM

May develop: toxic fumes.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the



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criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

ETHANEDIOL WORKERS: inhalation; contact with the skin. POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

ETHANEDIOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
|----------------------------------|-------------------------------------------|
| ATE (Oral) of the mixture: | Not classified (no significant component) |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

CALCIUM SULPHATE DIHYDRATE

| LD50 (Oral): LC50 (Inhalation mists/powders): |
|--------------------------------------------------|
| |

POLYETHYLENGLYCOL

LD50 (Oral):

> 2000 mg/kg

9530 mg/kg Rabbit

> 2000 mg/kg Rat

> 1581 mg/kg
> 3,26 mg/l/4h

ETHANEDIOL

LD50 (Dermal): LD50 (Oral):

BRODIFACOUM

| LD50 (Dermal): | > 3,2 mg/kg |
|----------------------------|----------------|
| LD50 (Oral): | > 0,4 mg/kg |
| LC50 (Inhalation vapours): | > 3,05 mg/l/4h |

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION



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Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHANEDIOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

REPRODUCTIVE TOXICITY

May damage the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

BRODIFACOUM LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

POLYETHYLENGLYCOL

0,042 mg/l/96h Trota iridea 25 mg/l/48h Daphnia magna 4 mg/l/72h Selenastrum capricornutum

| Colkim more than chemistry | COLKIM S.r.I. | Revision nr. 8 Dated 29/08/2022 Printed on 29/08/2022 |
|----------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|
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| LC50 - for Fish | > 100 mg/l/96h | |
| EC50 - for Crustacea | > 1000 mg/l/48h Daphnia magna | |
| EC50 - for Algae / Aquatic Plants | > 100 mg/l/72h Skeletonema costatum | |
| CALCIUM SULPHATE DIHYDRATE | | |
| LC50 - for Fish | > 56000 mg/l/96h Gambusia affinis | |
| EC50 - for Crustacea | 6,6 mg/l/48h Daphnia magna | |
| EC50 - for Algae / Aquatic Plants | > 79 mg/l/72h Selenastrum capricornutum | |
| 12.2. Persistence and degradability | | |
| BRODIFACOUM | | |
| NOT rapidly degradable | | |
| POLYETHYLENGLYCOL | | |
| Solubility in water | > 10000 mg/l | |
| ETHANEDIOL | | |
| Solubility in water | 1000 - 10000 mg/l | |
| Rapidly degradable 12.3. Bioaccumulative potential | | |
| BRODIFACOUM | | |
| Partition coefficient: n-octanol/water | 6,12 | |
| BCF | 35134 fish | |
| ETHANEDIOL | | |
| Partition coefficient: n-octanol/water | -1,36 | |
| 12.4. Mobility in soil | | |
| Information not available | | |
| 12.5. Results of PBT and vPvB assessment | | |

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.



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CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point

75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.



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Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| Repr. 1A | Reproductive toxicity, category 1A |
|-------------------|--------------------------------------------------------------------|
| Acute Tox. 1 | Acute toxicity, category 1 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| STOT RE 1 | Specific target organ toxicity - repeated exposure, category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| H360D | May damage the unborn child. |
| H300 | Fatal if swallowed. |
| H310 | Fatal in contact with skin. |
| H330 | Fatal if inhaled. |
| H302 | Harmful if swallowed. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH210 | Safety data sheet available on request. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road - ATE: Acute Toxicity Estimate



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- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 916/2012 (III Ap. CEP) of the European Parliament
 Regulation (EU) 944/2013 (IV Atp. CLP) of the European Parliament
 Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.



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The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.