



## HARMONIX RODENT PASTE

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Print Date: 27.04.2021

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

#### 1.1 Product identifier

**Trade name** HARMONIX RODENT PASTE  
**Product code (UVP)** 81006067

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

**Use** Rodenticide

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer Environmental Science  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
United Kingdom

**Telephone** 00800-1214 9451

**Telefax** +44(0)1223 426240

**Responsible Department** Email: ukcropsupport@bayer.com

**Supplier** Bayer CropScience Ltd.  
The Atrium  
Blackthorn Road  
Sandyford  
Dublin 18  
Ireland

**Telephone** +353-1-2999313

#### 1.4 Emergency telephone no.

**Emergency telephone no.** 00800 1020 3333 (24 hr)  
**National Poisons Information Centre Dublin** +353-1-809 2166 (available from 8 am to 10 pm every day)

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### 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.**

Not classified, the classification criteria are not met.

#### 2.2 Label elements

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

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No hazard label for supply/use required.

**2.3 Other hazards**

No particular hazards known.

Cholecalciferol: 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).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**Bait (ready for use) (RB)  
Cholecalciferol 0,075%**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	
Cholecalciferol	67-97-0 200-673-2	Acute Tox. 2, H300 Acute Tox. 2, H310 Acute Tox. 2, H330 STOT RE 1, H372	0.075
Polyethylene glycol	25322-68-3 500-038-2	Not classified	> 1
Peanut oil	8002-03-7 232-296-4	Not classified	> 1

**Further information**

Cholecalciferol	67-97-0	SCL: STOT RE 1; H372: SCL >= 3 %
Cholecalciferol	67-97-0	SCL: STOT RE 2; H373: SCL 0.3 - < 3 %
Cholecalciferol	67-97-0	Inhalation: ATE = 0.05 mg/l
Cholecalciferol	67-97-0	Inhalation: ATE = 0.05 mg/l
Cholecalciferol	67-97-0	Dermal: ATE = 50 mg/kg
Cholecalciferol	67-97-0	Oral: ATE = 35 mg/kg

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. When symptoms develop and persist, seek medical advice. Place and transport victim in stable position (lying sideways).

**Inhalation**

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.



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<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.
<b>Eye contact</b>	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. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

### **4.2 Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Hypercalcaemia, increased serum levels of 25-OH-vitamine D, Weakness, Vomiting, Thirst, Lethargy, Renal symptoms up to failure, gastrointestinal and central nervous symptoms are possible.
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### **4.3 Indication of any immediate medical attention and special treatment needed**

<b>Treatment</b>	Activated charcoal and cathartics like sorbitol or magnesium sulphate should be given. Repeated application of activated charcoal and application of a saline laxative can be considered. Further treatment depends on calcium concentration in blood. Monitor: blood picture.
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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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<b>5.2 Special hazards arising from the substance or mixture</b>	Dangerous gases are evolved in the event of a fire.
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### **5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.
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<b>Further information</b>	Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

<b>Precautions</b>	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
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<b>6.2 Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
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### **6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up** Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

**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.

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## **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 against fire and explosion** Keep away from heat and sources of ignition.

**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** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Protect from frost. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s)** Refer to the label and/or leaflet.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

No known occupational limit values.

### **8.2 Exposure controls**

**Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.**

#### **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

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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**

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.

Material	Nitrile rubber
Break through time	> 480 min
Glove thickness	> 0.4 mm
Directive	Protective gloves complying with EN 374.

**Eye protection**

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection**

Wear standard coveralls and Category 3 Type 5 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**

<b>Form</b>	paste
<b>Colour</b>	green
<b>Odour</b>	weak, characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not applicable, substance/mixture is non-soluble (in water)
<b>Melting point/range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash point</b>	No data available
<b>Flammability</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Ignition temperature</b>	389 °C
<b>Minimum ignition energy</b>	No data available
<b>Self-accelerating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	No data available

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<b>Lower explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	No data available
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Cholecalciferol: log Pow: > 5
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive Regulation (EC) No. 440/2008, Annex, A.14
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

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

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute oral toxicity** LD50 (Rat) > 2,000 mg/kg**Acute inhalation toxicity** During intended and foreseen applications, no respirable aerosol is formed.**Acute dermal toxicity** LD50 (Rat) > 2,000 mg/kg**Skin corrosion/irritation** Slight irritant effect - does not require labelling. (Rabbit)



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**Serious eye damage/eye irritation** Slight irritant effect - does not require labelling. (Rabbit)

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)

### Assessment STOT Specific target organ toxicity – single exposure

Cholecalciferol: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Cholecalciferol : May cause damage to organs through prolonged or repeated exposure.

### Assessment mutagenicity

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

### Assessment carcinogenicity

Cholecalciferol is not considered carcinogenic.

### Assessment toxicity to reproduction

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

### Assessment developmental toxicity

Cholecalciferol is not considered a developmental toxicant.

### Aspiration hazard

Based on available data, the classification criteria are not met.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** LC50 (Fish) > 100 mg/l  
Exposure time: 96 h  
The information is derived from the properties of the individual components.

**Toxicity to aquatic invertebrates** EC50 (Daphnia (water flea)) > 100 mg/l  
Exposure time: 48 h  
The information is derived from the properties of the individual components.

**Toxicity to aquatic plants** IC50 (Algae) > 100 mg/l  
Growth rate; Exposure time: 96 h  
The information is derived from the properties of the individual components.

### 12.2 Persistence and degradability

**Biodegradability** Cholecalciferol:  
Not readily biodegradable.

**Koc** Cholecalciferol: Koc: 426580; log Koc: > 5.63

### 12.3 Bioaccumulative potential

**Bioaccumulation** Cholecalciferol: Bioconcentration factor (BCF) 0.15



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Does not bioaccumulate.

### 12.4 Mobility in soil

**Mobility in soil** Cholecalciferol: Immobile in soil

### 12.5 Results of PBT and vPvB assessment

**PBT and vPvB assessment** Cholecalciferol: 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.

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## 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. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Contaminated packaging** Empty remaining contents.  
Do not use containers for other products.  
Clean container with water.  
Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.  
Not completely emptied packagings should be disposed of as hazardous waste.

**Waste key for the unused product** **06 13 01\*** Inorganic plant protection products, wood-preserving agents and other biocides

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## SECTION 14: TRANSPORT INFORMATION

**According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.**

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

**14.1 – 14.5** Not applicable.

### 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.

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### SECTION 15: REGULATORY INFORMATION

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

##### UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

##### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

##### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

##### Waste Treatment

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

##### Further information

WHO-classification: III (Slightly hazardous)

#### 15.2 Chemical safety assessment

A chemical safety assessment is not required.

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### SECTION 16: OTHER INFORMATION

#### Text of the hazard statements mentioned in Section 3

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.

#### 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

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ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EH40 WEL	Worker Exposure Limit
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
SI	Statutory Instrument
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 4: First Aid Measures. Section 5: Fire Fighting Measures. Section 7: Handling and Storage. Section 11: Toxicological information on STOT (Specific Target Organ Toxicity) and CMR (Carcinogenic, Mutagenic and toxic to Reproduction). Section 13. Disposal considerations.

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