

**JADE GRAIN 25**



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

**1.1. Product identifier**

Product name : JADE GRAIN 25

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

Recommended use(s): Rodenticide - Biocidal use.  
Use(s) advised against: Do not use for purposes other than those stated in "Recommended use(s)"

**Use descriptor system (REACH) :**

Not available.

**1.3. Details of the supplier of the safety data sheet**

Registered company name : (GB) LODI UK .  
Address : Unit 104, Potter Space, 7 Kidderminster Road, Cutnall Green, Droitwich.WR9 0NS.Droitwich.UNITED KINGDOM.  
Telephone : 01 384 40 42 42. Fax : .  
fds@lodi.fr

**1.4. Emergency telephone number :**

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24- hour service)  
General public:  
England - Dial 111 to reach NHS 111 (24- hour service)  
Scotland - Dial 112 to reach NHS 24 (24- hour service)  
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24- hour service).

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

**2.2. Label elements**

Biocidal mixture (see section 15).

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS08

Signal Word :

WARNING

Hazard statements :

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements - General :

P102 Keep out of reach of children.

P103 Read label before use

Precautionary statements - Prevention :

P220 Keep/store away from food, drink and animal feeding stuffs.

P260 Do not breathe dust.

P262 Do not get on skin.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves. (Professional only)

Precautionary statements - Response :

P301+310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P314 Get medical advice/attention if you feel unwell.

Precautionary statements - Storage :

P404+405 Store locked up in a closed container.

Precautionary statements - Disposal :

P501 Dispose of contents/container according to the regulation.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq$  0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**> Composition :**

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 57_55_6B CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL		[i]	0 <= x % < 2.5
INDEX: 57_55_PA CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL		[i]	0 <= x % < 2.5
INDEX: 102_716A CAS: 102-71-6 EC: 203-049-8 TRIETHANOLAMINE		[i]	0 <= x % < 2.5
INDEX: 607_716_00_8 CAS: 28772-56-7 EC: 249-205-9 BROMADIOLONE (ISO)	GHS06, GHS09, GHS08 Dgr Acute Tox. 1, H300 Acute Tox. 1, H310 Acute Tox. 1, H330 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[ii]	0 <= x % < 2.5
INDEX: 603_071_00_A CAS: 111-42-2 EC: 203-868-0 REACH: 01-2119488930-28 2,2'-IMINODIETHANOL	GHS08, GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361fd STOT RE 2, H373	[i] [ii]	0 <= x % < 2.5

**> Specific concentration limits:**

Identification	Specific concentration limits	ATE
INDEX: 57_55_6B CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL		oral: ATE = 22000 mg/kg BW
INDEX: 57_55_PA CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL		inhalation: ATE = 634 mg/l 4h (dust/mist)
INDEX: 102_716A CAS: 102-71-6 EC: 203-049-8 TRIETHANOLAMINE		oral: ATE = 6400 mg/kg BW
INDEX: 607_716_00_8 CAS: 28772-56-7 EC: 249-205-9 BROMADIOLONE (ISO)	Repr. 1B: H360D C>= 0.003% STOT RE 1: H372 C>= 0.005% STOT RE 2: H373 0.0005% <= C < 0.005%	dermal: ATE = 50 mg/kg BW
INDEX: 603_071_00_A CAS: 111-42-2 EC: 203-868-0 REACH: 01-2119488930-28 2,2'-IMINODIETHANOL		inhalation: ATE = 3.35 mg/l (dust/mist) oral: ATE = 1600 mg/kg BW

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### Information on ingredients :

(Full text of H-phrases: see section 16)

- [i] Substance for which maximum workplace exposure limits are available.
- [ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. description of first aid measures

#### In the event of exposure by inhalation :

Remove casualty to fresh air and keep warm and at rest. Seek medical attention if difficulties appear and persist.

#### In the event of splashes or contact with eyes :

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately

#### In the event of splashes or contact with skin :

In case of skin exposure, clean skin with water then with soap. Seek medical attention if irritation or discomfort develops

#### In the event of swallowing :

Do not eat or drink.

In case of oral exposure, rinse mouth carefully with water.

In case of ingestion, rinse mouth with water. In case of ingestion, obtain a medical examination immediately and show the label. Contact a veterinary in case of ingestion by a pet.

Never give anything by mouth . Do not induce vomiting.

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

This product contains an anticoagulant substance. If ingested, symptoms, which may be delayed, may include nosebleed and bleeding gums. In severe cases, there may be bruising and blood present in the faeces or urine.

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

#### Specific and immediate treatment :

Antidote: Vitamin K1 administered by medical/veterinary personnel only.

#### Information for the doctor :

Antidote: Vitamin K1 administered by medical/veterinary personnel only.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

#### Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

#### Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### > 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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Contaminated wash water must be retained and disposed of. In the event of a gas leak or entry into watercourses, the ground or the drainage system, inform the responsible authorities.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

**> 6.3. Methods and material for containment and cleaning up**

Retrieve the product by mechanical means (sweeping/vacuuming).

Rapidly collect the product. To do so, wear a mask and protective clothing

Wash with plenty of water.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in dust.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

Contaminated clothing should be changed before entering eating areas.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink and animal feeding stuffs.

Keep away from sources of ignition, heat and direct sunlight.

Store in the original container, hermetically sealed.

Store in places prevented from the access of children, birds, pets and farm animals.

**Packaging**

Always keep in packaging made of an identical material to the original.

Recommended types of packaging :

Original packaging.

Suitable packaging materials :

Original packaging.

Unsuitable packaging materials :

Different than the original packaging.

**7.3. Specific end use(s)**

No data available.

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

**8.1. Control parameters**

**> Occupational exposure limits :**

- France :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
111-42-2 2,2'-IMINODIETHANOL	3	15				49,49 BIS

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
57-55-6 PROPYLENE GLYCOL	10 mg/m3				

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57-55-6 PROPYLENE GLYCOL	10 mg/m3				
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- Belgium :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6 TRIETHANOLAMINE	5 mg/m3				
111-42-2 2,2'-IMINODIETHANOL	0.2 ppm 1 mg/m3				

**> Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

PROPYLENE GLYCOL (CAS: 57-55-6)

	<b>Workers.</b>
<b>&gt; Final use:</b>	
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	168 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	10 mg of substance/m3
<b>&gt; Final use:</b>	<b>Consumers.</b>
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	50 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	10 mg of substance/m3

**> Predicted no effect concentration (PNEC):**

PROPYLENE GLYCOL (CAS: 57-55-6)

Environmental compartment: PNEC :	Soil. 50 mg/kg
Environmental compartment: PNEC :	Fresh water. 260 mg/l
Environmental compartment: PNEC :	Sea water. 26 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 183 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 572 mg/kg
Environmental compartment: PNEC :	Marine sediment. 57.2 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 20000 mg/l

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

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**|> - Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Amateurs and non-professionals: the gloves are recommended. Professionals : The gloves are mandatory. Wash hands after use.

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid inhaling dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**|> Physical state**

Physical state : Solid.

Physical state : Grain.

**Colour**

Colour: Green.

**Odour**

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : Not relevant.

**|> Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Non inflammable.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**|> pH**

pH (aqueous solution) : Not stated.

pH : 6.40 .

Guideline: Neutral.

Guideline: CIPAC MT 75.3

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Insoluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

**|> Density and/or relative density**

Density : 0.737 - 0.692

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**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The mixture does not contain nanoforms.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

**10.5. Incompatible materials**

None.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

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

**11.1.1. Substances**

**> a) Acute toxicity :**

2,2'-IMINODIETHANOL (CAS: 111-42-2)

Oral route : LD50 = 1600 mg/kg body weight  
Species : Rat

Dermal route : LD50 > 8200 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 3.35 mg/l

BROMADIOLONE (ISO) (CAS: 28772-56-7)

Oral route : LD50 ≤ 5 mg/kg body weight

Dermal route : LD50 = 50 mg/kg body weight

Inhalation route (Dusts/mist) : LC50 ≤ 0.05 ppm  
Duration of exposure : 4 h

TRIETHANOLAMINE (CAS: 102-71-6)

Oral route : LD50 = 6400 mg/kg body weight  
Species : Rat

Dermal route : LD50 > 2000 mg/kg body weight  
Species : Rabbit

PROPYLENE GLYCOL (CAS: 57-55-6)

Oral route : LD50 > 2000 mg/kg body weight

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Species : Rat

Dermal route : LD50 > 2000 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 634 mg/l  
Species : Rat  
Duration of exposure : 4 h

PROPYLENE GLYCOL (CAS: 57-55-6)  
Oral route : LD50 = 22000 mg/kg body weight  
Species : Rat

Dermal route : LD50 > 2000 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 > 317042 mg/l  
Species : Rabbit

**> b) Skin corrosion/skin irritation :**

PROPYLENE GLYCOL (CAS: 57-55-6) OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

2,2'-IMINODIETHANOL (CAS: 111-42-2)  
Corrosivity : No observed effect.

**c) Serious damage to eyes/eye irritation :**

PROPYLENE GLYCOL (CAS: 57-55-6) OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**d) Respiratory or skin sensitisation :**

PROPYLENE GLYCOL (CAS: 57-55-6)  
Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.  
Species : Guinea pig  
OECD Guideline 406 (Skin Sensitisation)

**e) Germ cell mutagenicity :**

PROPYLENE GLYCOL (CAS: 57-55-6) No mutagenic effect.

**f) Carcinogenicity :**

PROPYLENE GLYCOL (CAS: 57-55-6)  
Carcinogenicity Test : Negative.  
No carcinogenic effect.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2. Mixture**

**11.1.2.1 Information on hazard classes**

**a) Acute toxicity :**

Oral route : No data available.  
Species : Rat  
LD50 > 2000 mg/kg  
OECD Guideline 423 (Acute Oral toxicity Acute Toxic Class Method)

Dermal route : No data available.  
Species : Rat

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LD50 > 2000 mg/kg  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : No data available.

**b) Skin corrosion/skin irritation :**

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

**- Classification based on extreme pH and an acid or alkaline reserve**

Tests have proven that the mixture is neither corrosive nor irritant despite the low/high pH.

**c) Serious damage to eyes/eye irritation :**

Splashes in the eyes may cause irritation and reversible damage

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Tests have proven that the mixture is not corrosive, does not produce serious ocular lesions or cause irritation despite the low/high pH.

**d) Respiratory or skin sensitisation :**

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.  
Species : Guinea pig  
OECD Guideline 406 (Skin Sensitisation)

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

May cause severe damage to organs in the event of repeated or prolonged exposure.

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information**

**Symptoms related to the physical, chemical and toxicological characteristics**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

**> Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 111-42-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 102-71-6 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**> 12.1.1. Substances**

2,2'-IMINODIETHANOL (CAS: 111-42-2)

Fish toxicity :

LC50 = 460 mg/l  
Species : Oncorhynchus mykiss

Crustacean toxicity :

EC50 = 30.1 mg/l  
Species : Ceriodaphnia dubia  
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 9.5 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 96 h

BROMADIOLONE (ISO) (CAS: 28772-56-7)

Fish toxicity :

LC50 = 2.89 mg/l  
Species : Oncorhynchus mykiss

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	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 5.79 mg/l Species : Daphnia magna Duration of exposure : 48 h
TRIETHANOLAMINE (CAS: 102-71-6) Fish toxicity :	LC50 > 11800 mg/l Species : Pimephales promelas
Crustacean toxicity :	EC50 = 609.9 mg/l Species : Ceriodaphnia dubia  NOEC = 16 mg/l Species : Daphnia magna Duration of exposure : 21 days
Algae toxicity :	ECr50 = 512 mg/l Species : Scenedesmus sp. Duration of exposure : 72 h
PROPYLENE GLYCOL (CAS: 57-55-6) Fish toxicity :	LC50 = 40613 mg/l
Crustacean toxicity :	EC50 = 340 mg/l Species : Daphnia magna
Algae toxicity :	ECr50 = 19000 mg/l
PROPYLENE GLYCOL (CAS: 57-55-6) Fish toxicity :	LC50 = 40613 mg/l Species : Oncorhynchus mykiss Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 = 18340 mg/l Species : Ceriodaphnia dubia Duration of exposure : 48 h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)  NOEC = 13030 mg/l Species : Ceriodaphnia dubia Duration of exposure : 7 days
Algae toxicity :	ECr50 = 19000 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 96 h OECD Guideline 201 (Alga, Growth Inhibition Test)

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**|> 12.2.1. Substances**

2,2'-IMINODIETHANOL (CAS: 111-42-2) Biodegradability :	Rapidly degradable.
BROMADIOLONE (ISO) (CAS: 28772-56-7) Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
TRIETHANOLAMINE (CAS: 102-71-6) Biodegradability :	Rapidly degradable.
PROPYLENE GLYCOL (CAS: 57-55-6) Biodegradability :	Rapidly degradable.
PROPYLENE GLYCOL (CAS: 57-55-6)	

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Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

**> 12.3.1. Substances**

2,2'-IMINODIETHANOL (CAS: 111-42-2)

Octanol/water partition coefficient : Log Kow = -2.46

PROPYLENE GLYCOL (CAS: 57-55-6)

Octanol/water partition coefficient : Log Kow < 3.

PROPYLENE GLYCOL (CAS: 57-55-6)

Octanol/water partition coefficient : Log Kow = -1.07  
OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Bioaccumulation : FBC = 0.09

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**14.1. UN number or ID number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**14.7. Maritime transport in bulk according to IMO instruments**

-

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**SECTION 15 : REGULATORY INFORMATION**

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

**> Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/1182 (ATP15).

**Container information:**

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

**Particular provisions :**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):**

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:  
<https://echa.europa.eu/fr/authorisation-list>.

**Ozone-depleting substances (Regulation (EC) No 2024/590).**

The mixture does not contain any substance posing a risk to the ozone layer.

**Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):**

The mixture does not contain a persistent organic pollutant.

**> PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):**

The mixture is subject to the Prior Informed Consent (PIC) procedure.

The mixture contains a substance subject to the export notification procedure requirement.

28772-56-7 BROMADIOLONE (ISO)

**Explosives precursors :**

The mixture does not contain any substance subject to the Poisons act 1972 and control of explosives precursors and poisons regulations Regulation of 2023 (UK).

**Labelling for biocidal products (Regulation (UE) n° 528/2012) :**

Name	CAS	%	Product-type
BROMADIOLONE (ISO)	28772-56-7	0.025 g/kg	14

Product-type 14 : Rodenticides.

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.

**> Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

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REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time-Weighted Average

TMP : French Occupational Illness table

VLE : Threshold Limit Value (exposure)

VME : Average Exposure Value.

ADR : Agreement concerning the international carriage of dangerous goods by road.

GHS08 : Health hazard

IATA : International Air Transport Association.

IMDG : International Maritime Dangerous Goods.

ICAO : International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.

POP: Persistent Organic Pollutant.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern.

WGK : Water Hazard Class.

|> Modification compared to the previous version