

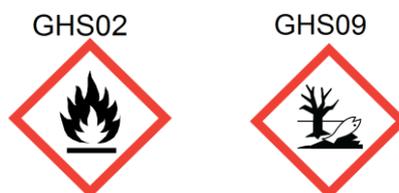
## SAFETY DATA SHEET

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

- 1.1. **Product identifier:**  
PROTECT cockroach and ant killer aerosol
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against:**  
Over-the-counter preparation against crawling insects. For consumer and professional use.  
  
Biocide product type: 18
- 1.3. **Details of the supplier of the safety data sheet:**  
  
Information about the manufacturer/distributor:  
**Bábolna Bioenvironmental Centre Ltd.**  
H-1107 Budapest, Szállás u. 6.  
Tel.: (36-1) 432-0400
- 1.3.1. Responsible person: -  
E-mail: [info@babolna-bio.com](mailto:info@babolna-bio.com)
- 1.4. **Emergency telephone number:**
- |           |                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
| UK:       | +36 1 432 0400, (working hours)                                                                                                           |
| Latvia:   | Valsts ugunsdzēsības un glābšanas dienests: Tel: 112                                                                                      |
| Romania:  | Institutul național de Sănătate Publică<br>București, Sector 5, Str. Dr. Leonte, nr.1-3.<br>Telefon: +40 213 183 606                      |
| Slovakia: | Národné Toxikologické Informačné Centrum (NTIC)<br>Limbová 5, 833 05 Bratislava, Slovakia<br>Tel: +421 2 5477 4166 (24/7, free of charge) |

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture:**  
  
Classification according to Regulation (EC) No 1272/2008 (CLP):  
Aerosols, Hazard Category 1 – H222; H229  
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400  
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410
- Hazard statements:**  
**H222** – Extremely flammable aerosol.  
**H229** – Pressurised container: May burst if heated.  
**H400** – Very toxic to aquatic life.  
**H410** – Very toxic to aquatic life with long lasting effects.
- 2.2. **Label elements:**  
  
**Active substance content:**  
Cyphenothrin (CAS: 39515-40-7) 0.31 %  
d-Tetramethrin (CAS: 1166-46-7) 0.1 %



DANGER

**Hazard statements:**

- H222** – Extremely flammable aerosol.  
**H229** – Pressurised container: May burst if heated.  
**H410** – Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- P102** – Keep out of reach of children.  
**P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P211** – Do not spray on an open flame or other ignition source.  
**P251** – Do not pierce or burn, even after use.  
**P261** – Avoid breathing spray.  
**P273** – Avoid release to the environment.  
**P391** – Collect spillage.  
**P410 + P412** – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
**P501** – Dispose of contents/container: the empty containers can be disposed of together with household waste.

Biocide product, it should be packed/labelled according to Regulation (EU) No. 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products.

**2.3. Other hazards:**

The product has no other known specific hazards for human or environment.  
The components of the product do not meet the criteria on persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances in accordance with Annex XIII of Regulation (EC) No. 1907/2006.  
Endocrine disrupting property: **d-Tetramethrin** (CAS: 1166-46-7): Under evaluation as endocrine disruptor.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**3.2. Mixtures:**

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics*</b>	-	918-481-9	01-2119457273-39	>60	GHS08 Danger	Asp. Tox. 1	H304
<b>Propane</b> Index number: 601-003-00-5	74-98-6	200-827-9	-	30 – 40	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
<b>Butane</b> Index number: 601-004-00-0	106-97-8	203-448-7	-		GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
<b>Cyphenothrin / α-cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane-carboxylate*</b>	39515-40-7	254-484-5	-	0.31	GHS07 GHS09 Warning	Acute Tox. 4 Aquatic Acute 1 M factor = 1000 Aquatic Chronic 1 M factor = 1000	H302 H400 H410

d-Tetramethrin (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane-carboxylate) Index number: 607-728-00-3	1166-46-7	214-619-0	-	0.1	GHS07 GHS08 GHS09 Warning	Acute Tox. 4 Carc. 2 STOT SE 2 (nervous system, inhalation) Aquatic Acute 1 M factor =100 Aquatic Chronic 1 M factor =100	H302 H351 H371 H400 H410
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\*: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No. 1272/2008.

For the full text of hazard statements, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures:

#### INGESTION:

Measures:

- Based on the product form, it is not expected.
- Rinse mouth with water.
- Do not induce vomiting.

#### INHALATION:

Measures:

- Take the victim into fresh air.

#### SKIN CONTACT:

Measures:

- Wash thoroughly the skin with water and soap.
- Wash contaminated clothing before re-use.

#### EYE CONTACT:

Measures:

- In case of contact with eyes flush with water holding eyelids apart (for at least 15 minutes).
- Remove contact lenses if it is easy to do.

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

Inhalation: Cough.

Ingestion: Not expected, but there is a risk of lung damage.

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

For the first aid persons, personal protective equipment is not necessary.

In case of ingestion and/or unwellness, obtain medical help.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media:

#### 5.1.1. Suitable extinguishing media:

Dry extinguishing media, carbon dioxide, alcohol resistant foam, water spray.

#### 5.1.2. Unsuitable extinguishing media:

Strong water jet.

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

Extremely flammable aerosol. Pressurised container: May burst if heated.

The formation of dangerous decomposition products greatly depends on the circumstances of the combustion. A complex mixture of airborne solid, liquid and gas substances may occur, such as carbon monoxide, carbon dioxide and unidentified compounds.

### 5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

Cool the fire affected containers with water spray to avoid explosion hazard.

Extinguish from protected place (The aerosol cans may explode and they can fly away significant distance).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. For non-emergency personnel:**  
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. For emergency responders:**  
Ensure adequate ventilation.  
Remove sources of ignition.  
Avoid formation of sparks.  
In high concentrations, the product can create oxygen-deficient environment therefore wear closed system respiratory protection in case of large amount are released.  
Wear appropriate personal protective equipment (self-contained breathing apparatus, protective clothing, rubber gloves, boots).
- 6.2. Environmental precautions:**  
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. Methods and material for containment and cleaning up:**  
Collect the spilled product with non-combustible absorbent (dry sand or earth, grinded limestone), then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  
During disposal wearing of suitable personal protective equipment is recommended.  
Wash the contaminated area with plenty of water and detergent.
- 6.4. Reference to other sections:**  
For further and detailed information see Section 7, 8 and 13.

## SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:**  
Observe conventional hygiene precautions.  
Do not breathe vapours.  
Keep away from food, drink and animal feed.  
Do not eat, drink, or smoke when using this product.  
Wash hands and face thoroughly after the use of this product.  
**Technical measures:**  
Use in well-ventilated area.  
**Precautions against fire and explosion:**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.
- 7.2. Conditions for safe storage, including any incompatibilities:**  
**Technical measures and storage condition:**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
In case of storing large quantities, the electrical and lighting equipment should be explosion-proof.  
Keep away from food, drink and animal feed.  
**Incompatible materials:** see Section 10.5  
**Packaging material:** no special prescriptions.
- 7.3. Specific end use(s):**  
Follow the instructions of use on the packaging.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters:**
- Occupational exposure limit values** (Commission Directive (EC) No 2000/39 of 8 June 2000):  
The components of the mixture are not regulated with exposure limit value.

The hazardous components of the mixture are regulated with exposure limit value in the following countries:

**United Kingdom** (EH40/2005 Workplace Exposure Limits):

**Butane** (CAS: 106-97-8):

Long-term: 600 ppm; 1450 mg/m<sup>3</sup>

Short-term: 750 ppm; 1810 mg/m<sup>3</sup>

**Latvia** (Ministru kabineta noteikumi Nr.325, Rīgā 2007.gada 15.maijā (prot. Nr.29 29.§)):

**Butane** (CAS: 106-97-8):

8 hours: 300 mg/m<sup>3</sup>

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no note(s)
Seawater	no data	no note(s)
Freshwater sediment	no data	no note(s)
Seawater sediment	no data	no note(s)
Wastewater Treatment Plant (STP)	no data	no note(s)
Intermittent release	no data	no note(s)
Secondary poisoning	no data	no note(s)
Soil	no data	no note(s)

## 8.2. **Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

### 8.2.1. **Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin.

Ensure adequate ventilation, do not breathe vapours.

Do not use open flame and do not smoke in the area.

At occasional usage, protective equipment is not necessary

### 8.2.2. **Individual protection measures, such as personal protective equipment:**

1. **Eye/face protection:** Not required.

2. **Skin protection:**

a. **Hand protection:** Not required. In case of professional usage, wear appropriate protective gloves (EN 374).

b. **Other:** Not required. In case of professional usage, wear appropriate protective clothing.

3. **Respiratory protection:** Not required.

4. **Thermal hazards:** no thermal hazards known.

### 8.2.3. **Environmental exposure controls:**

No specific prescription.

**The requirements detailed in section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	aerosol product containing fluid and liquified propane-butane propellant
2. Colour	colourless
3. Odour, odour threshold	mild, petroleum-like
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	-60 °C (propellant)
6. Flammability	no data*
7. Lower and upper explosion limit	2 – 10 v/v % (propellant)
8. Flash point	no data*
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	ca. 7
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	weakly soluble no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	0.77 (fluid, 25 °C)
17. Relative vapour density	no data*
18. Particle characteristics	no data*

### 9.2. Other information:

#### 9.2.1. Information with regard to physical hazard classes:

Explosive properties: the fluid is not explosive but the propellant can create explosive mixture with the air.

Oxidizing properties: not oxidizing.

#### 9.2.2. Other safety characteristics:

No other characteristics available.

\*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

No reactivity known.

### 10.2. Chemical stability:

The mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions:

In case of recommended handling and storage no hazardous reactions are expected.

### 10.4. Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5. Incompatible materials:

No incompatible materials known.

### 10.6. Hazardous decomposition products:

In case of recommended handling and storage no hazardous decomposition products are expected.

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:**  
**Acute toxicity:** Based on available data, the classification criteria are not met.  
**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.  
**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.  
**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.  
**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.  
**Carcinogenicity:** Based on available data, the classification criteria are not met.  
**Reproductive toxicity:** Based on available data, the classification criteria are not met.  
**STOT-single exposure:** Based on available data, the classification criteria are not met.  
**STOT-repeated exposure:** Based on available data, the classification criteria are not met.  
**Aspiration hazard:** Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**  
No data available.
- 11.1.2. Relevant toxicological properties:**  
No data available about the product.  
Information about the components:  
**Cyphenothrin** (CAS: 39515-40-7):  
LD<sub>50</sub> (oral, rat): 420 mg/kg  
LD<sub>50</sub> (dermal, rat): >5000 mg/kg
- 11.1.3. Information on likely routes of exposure:**  
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**  
Eyes: Mild irritation.  
Inhalation: Cough.  
Ingestion: Not expected, but there is a risk of lung damage.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**  
No data available.
- 11.1.6. Interactive effects:**  
No data available.
- 11.1.7. Absence of specific data:**  
No information.
- 11.2. Information on other hazards:**  
**Endocrine disrupting properties:**  
Information about the components:  
**d-Tetramethrin** (CAS: 1166-46-7): Under evaluation as endocrine disruptor.  
**Other information:**  
No data available.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**  
Short-term (acute) aquatic toxicity hazard: Very toxic to aquatic life.  
Long-term (chronic) aquatic toxicity hazard: Very toxic to aquatic life with long lasting effects.  
Toxic for bees.
- 12.2. Persistence and degradability:**  
No data available.
- 12.3. Bioaccumulative potential:**  
No data available.
- 12.4. Mobility in soil:**  
No data available.
- 12.5. Results of PBT and vPvB assessment:**  
The components of the product do not meet the criteria on persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances in accordance with Annex XIII of Regulation (EC) No. 1907/2006.
- 12.6. Endocrine disrupting properties:**  
Endocrine disrupting property: **d-Tetramethrin** (CAS: 1166-46-7): Under evaluation as endocrine disruptor.
- 12.7. Other adverse effects:**  
No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:**  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:**  
Dispose of in accordance with applicable regulations.  
The empty containers in small quantities can be disposed of together with household waste.  
In large quantities it is handled and disposed of as hazardous waste.  
Do not empty into drains, surface and ground water.  
**List of Waste Code:**  
**16 03 05\*** organic wastes containing hazardous substances  
\*: hazardous waste.
- 13.1.2. Information regarding the disposal of the packaging:**  
Dispose of in accordance with applicable regulations.  
**List of Waste Code:**  
**15 01 10\*** packaging containing residues of or contaminated by hazardous substances  
\*: hazardous waste.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:**  
No data available.
- 13.1.4. Sewage disposal:**  
No data available.
- 13.1.5. Special precautions for any recommended waste treatment:**  
Do not pierce or burn, even after use.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID; ADN; IMDG; IATA:

- 14.1. UN number or ID number:**  
UN 1950
- 14.2. UN proper shipping name:**  
AEROSOLS, flammable
- 14.3. Transport hazard class(es):**  
2
- 14.4. Packing group:**  
No packaging group.
- 14.5. Environmental hazards:**  
Environmentally hazardous: Yes.
- 14.6. Special precautions for user:**  
No relevant information available.
- 14.7. Maritime transport in bulk according to IMO instruments:**  
Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

**REGULATION (EC) No 1907/2006** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 93/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

**REGULATION (EC) No 1272/2008** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**COMMISSION REGULATION (EU) 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**REGULATION (EU) No 528/2012** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products

**COMMISSION DIRECTIVE (EU) No 2013/10** of 19 March 2013 amending Council Directive (EEC) No 75/324 on the approximation of the laws of the Member States relating to aerosol dispensers

15.2. **Chemical safety assessment:** Has not been carried out.

## SECTION 16: OTHER INFORMATION

### Information regarding the revision of the safety data sheet:

The safety data sheet has been revised according to Regulation (EU) 2020/878 (Section 1-16).

The hazard classification of the mixture did not change compared to the previous version.

The composition of the mixture was modified compared to the previous version

This Safety Data Sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

### Literature references / data sources:

Previous version of the safety data sheet (16. 10. 2020, version 1)

Information provided by the manufacturer (safety data sheet of a similar product)

### Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Aerosols, Hazard Category 1 – H222; H229	Based on test methods (test data)
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410	Based on calculation method

### Relevant hazard statements (code and full text) of Sections 2 and 3:

**H220** – Extremely flammable gas.

**H222** – Extremely flammable aerosol.

**H229** – Pressurised container: May burst if heated.

**H280** – Contains gas under pressure; may explode if heated.

**H302** – Harmful if swallowed.

**H304** – May be fatal if swallowed and enters airways.

**H351** – Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**H371** – May cause damage to organs <nervous system> <inhalation>.

**H400** – Very toxic to aquatic life.

**H410** – Very toxic to aquatic life with long lasting effects.

**Training advice:** no data available.

### Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).

EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).  
EINECS: European Inventory of Existing Commercial Substances.  
ELINCS: European List of Notified Chemical Substances.  
EN: European Norm.  
EU: European Union.  
EWC: European Waste Catalogue (replaced by LoW – see below).  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.  
IATA: International Air Transport Association.  
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
IMDG: International Maritime Dangerous Goods.  
IMO: International Maritime Organization.  
IMSBC: International Maritime Solid Bulk Cargoes.  
IUCLID: International Uniform Chemical Information Database.  
IUPAC: International Union of Pure and Applied Chemistry.  
Kow: n-Octanol - Water Partition Coefficient.  
LC50: Lethal concentration resulting in 50 % mortality.  
LD50: Lethal dose resulting in 50 % mortality (median lethal dose).  
LoW: List of Waste.  
LOEC: Lowest Observed Effect Concentration.  
LOEL: Lowest Observed Effect Level.  
NOEC: No Observed Effect Concentration.  
NOEL: No Observed Effect Level.  
NOAEC: No Observed Adverse Effect Concentration.  
NOAEL: No Observed Adverse Effect Level.  
OECD: Organization for Economic Cooperation and Development.  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic.  
PNEC: Predicted No Effect Concentration.  
QSAR: Quantitative Structure Activity Relationship.  
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.  
SCBA: Self Contained Breathing Apparatus.  
SDS: Safety Data Sheet.  
STOT: Specific Target Organ Toxicity.  
SVHC: Substances of Very High Concern.  
UN: United Nations.  
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.  
VOC: Volatile Organic Compound.  
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

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Safety data sheet was prepared by:  
**MSDS-Europe**  
**International branch of ToxInfo Kft.**

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the safety data sheet:  
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