

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Trade name: **Insecto Pro Formula Powder Ant & Nest Killer Powder  
Deltamethrin 0.05% DP**  
Product code: **LODIDELT5**  
Reg. No. **- UK-2017-1104-0003**

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

**Relevant identified uses of the substance or mixture:**

Biocide

### Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

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

Lodi UK Ltd Bays 3 & 4,  
Building 69 Third Avenue Pensnett Trading Estate Kingswinford DY6 7FD

Tel: +44 01384 404242 (office hours only)  
Emergency tel: +44 01384 404242 (office hours only)

### 1.4 Emergency telephone number

#### Emergency information services / official advisory body:

National Poisons Information Service (NPIS) - Members of the public:  
in England and Wales (NHS Direct) - 0845 4647, in Scotland (NHS 24) - 08454 24 24 24,  
in the Republic of Ireland - 01 809 21 66.

National Poisons Information Service (NPIS) - Healthcare professionals:

[www.toxbase.org](http://www.toxbase.org),

UK NPIS - 0844 892 0111,  
Ireland NPIC - 01 809 2566

Telephone number of the company in case of emergencies:

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

### 2.2 Label elements

#### Labeling according to Regulation (EC) 1272/2008 (CLP)



Hazard pictograms:

Signal word:

Warning



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**Hazard statements:** H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements:** P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

n.a.

### 3.2 Mixture

Components:

Substance:	EC/CAS numbers:	EU Index No./REACH Registration Number:	CLP Classification:	Percent:
deltamethrin (ISO); (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane-carboxylate	258-256-6/ 52918-63-5	607-319-00-X/ -	Acute Tox. 3 (Inhalation); H331 Acute Tox. 3 (Oral); H301 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  <b>Specific Concentration Limits, M-factors and ATEs if available:</b> M=1,000,000	0.051%

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.



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First-aid measures after eye contact: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice. Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion: Get immediate medical advice/attention. Immediately call a POISON CENTER/doctor. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

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

No additional information available.

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

No additional information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray/Dry powder/foam/CO<sub>2</sub>  
**Unsuitable extinguishing media** None known

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

Fire hazard: In case of fire and/or explosion do not breathe fumes.  
 Reactivity in case of fire: Product is not explosive.  
 Hazardous decomposition products in case of fire: Carbon monoxide. Nitrogen oxides. Carbon dioxide. Toxic fumes may be released.

#### 5.3 Advice for firefighters

Precautionary measures fire: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.  
 Firefighting instructions: Appropriate self-contained breathing apparatus may be required. Get the package away from the fire if this can be done without risk. Prevent fire fighting water from entering the environment.  
 Protection during firefighting: Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.  
 Other information: Do not allow material to contaminate surface water system.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). EN 166.  
 Wear eye protection. Personal protective equipment. EN ISO 20345.  
 Emergency procedures: Evacuate personnel to a safe area.

##### 6.1.2. For emergency responders

Protective equipment: Wear suitable hand, body and head protection.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.  
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
 Suitable material for taking up: absorbing material, organic, sand.



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### 6.3 Methods and material for containment and cleaning up

For containment: Label the container and provide warning statements to prevent any contact.  
 Methods for cleaning up: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.  
 Carefully collect remainder. Minimise generation of dust. Wash contaminated area with large amounts of water.

### 6.4 Reference to other sections

No additional information available.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

Additional hazards when processed: Do not allow run-off from fire fighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).  
 Precautions for safe handling: Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Ensure adequate ventilation, especially in confined areas. Store locked up.  
 Storage conditions: Keep only in original container. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Protect from sunlight.  
 Storage temperature: 0 – 30 °C  
 Packaging materials: Keep only in the original container in a cool, well-ventilated place away from combustible materials.

### 7.3 Specific end use(s)

Biocide.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None set for components.

DNEL Exposure Limit Values  
 Not available  
 PNEC Exposure Limit Values  
 Not available

### 8.2 Exposure controls

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

#### Eye protection:

EN 166. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

#### Skin and body protection:

Long sleeved protective clothing.

**Respiratory protection:**

Extra personal protection: P2 filter respirator for harmful particles. Extra personal protection: P3 filter respirator for toxic particles.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid
Colour:	white.
Odour:	odourless.
Odour threshold:	No data available
pH:	No data available
pH solution:	7,12 (1% solution)
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not flammable, Not self-igniting
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	0,843 g/cm <sup>3</sup>
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	> 4,6
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Not explosive.
Oxidising properties:	Non oxidizing.
Explosive limits:	No data available

### 9.2 Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3 Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4 Conditions to avoid

Heat. High temperature. Open flame. Direct sunlight.

### 10.5 Incompatible materials

No additional information available.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

(a) acute toxicity:

**Product**

Acute toxicity (oral): Not classified (>2000mg/kg bodyweight (LD50 oral rat))  
Acute toxicity (dermal): Not classified (>2000mg/kg bodyweight LD50 dermal rat))  
Acute toxicity (inhalation): Not classified (>1.354ml/m<sup>3</sup> (LC50 inhalation rat))

**deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)**

Acute toxicity (oral): Not classified (50mg/kg bodyweight (LD50 oral rat))  
Acute toxicity (dermal): Not classified (>2000mg/kg bodyweight LD50 dermal rat))  
Acute toxicity (inhalation): Not classified (0.6 mg/l/4h (LC50 inhalation rat (mg/l))

(b) skin corrosion/irritation:

Not classified.

(c) serious eye damage/irritation:

Not classified.

(d) respiratory or skin sensitisation:

Not classified.

(e) germ cell mutagenicity:

Not classified.

(f) carcinogenicity:

Not classified.

(g) reproductive toxicity:

Not classified.

(h) STOT-single exposure:

Not classified.

(i) STOT-repeated exposure:

Not classified.

(j) aspiration hazard:

Not classified.

### 11.2 Information on other hazards:

Endocrine disrupting properties: None  
Other information: None

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute): Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic): Very toxic to aquatic life with long lasting effects.

**Product**

LC50 fish 1 >= 0,26  $\mu$ g/l *Oncorhynchus mykiss* (96 h)  
EC50 *Daphnia* 1 0,0000041 ml/l *Daphnia magna*



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ErC50 (algae) > 0,47 mg/l Chlorella vulgaris (96 h)

#### 12.2. Persistence and degradability

**deltamethrin (ISO); (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)**

Persistence and degradability: Not readily biodegradable.

#### 12.3. Bioaccumulative potential

Product Log Pow >4.6

#### 12.4. Mobility in soil

No additional information available.

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

vPvB Substances: None

PBT Substances: None

#### 12.6. Other adverse effects

No additional information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Regional legislation (waste):

Product/Packaging disposal recommendations:

Disposal must be done according to official regulations.

Avoid release to the environment. Disposal must be done according to official regulations.

Do not dispose of the packaging without first carrying out the necessary cleaning. Refer to manufacturer/supplier for information on recovery/recycling.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
Special provision(s) applied: 375 CARRIAGE PROHIBITED			NOT SUBJECT	

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

#### 14.1. UN number




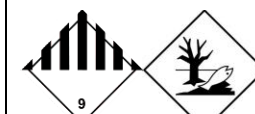
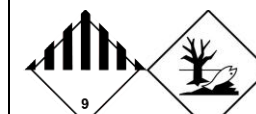
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
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#### 14.2. UN proper shipping name

ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3- phenoxybenzyl (1R, 3R)-3- (2,2- dibromovinyl)-2,2-	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3- phenoxybenzyl (1R, 3R)-3- (2,2- dibromovinyl)-2,2-	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3- phenoxybenzyl (1R, 3R)-3- (2,2- dibromovinyl)-2,2-	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3- phenoxybenzyl (1R, 3R)-3- (2,2- dibromovinyl)-2,2-	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3- phenoxybenzyl (1R, 3R)-3- (2,2- dibromovinyl)-2,2-
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dimethylcyclopropa necarbo xylate)	dimethylcyclopropa necarbo xylate)	dimethylcyclopropa necarbo xylate)	dimethylcyclopropa necarbo xylate)	dimethylcyclopropa necarbo xylate)
<b>Transport document description</b>				
UN 3077 ENVIRONMENTALY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3- (2,2-dibromovinyl)-2,2-dimethylcyclopropa necarbo xylate), 9, III, (-)	UN 3077 ENVIRONMENTALY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3- (2,2-dibromovinyl)-2,2-dimethylcyclopropa necarbo xylate), 9, III, MARINE POLLUTANT	ENVIRONMENTALY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3- (2,2-dibromovinyl)-2,2-dimethylcyclopropa necarbo xylate	UN 3077 ENVIRONMENTALY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3- (2,2-dibromovinyl)-2,2-dimethylcyclopropa necarbo xylate), 9, III	UN 3077 ENVIRONMENTALY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3- (2,2-dibromovinyl)-2,2-dimethylcyclopropa necarbo xylate), 9, III

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

9	9	9	9	9
				

**14.4. Packing group**

III	III	III	III	III
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**14.5. Environmental hazards**

Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
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**14.6. Special precautions for user**

Overland transport

Classification code (ADR) : M7  
 Special provisions (ADR) : 274, 335, 375, 601  
 Limited quantities (ADR) : 5kg  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P002, IBC08, LP02, R001  
 Special packing provisions (ADR) : PP12, B3  
 Mixed packing provisions (ADR) : MP10  
 Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3

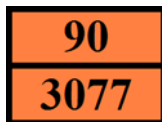
Portable tank and bulk container special : TP33  
 provisions (ADR)  
 Tank code (ADR) : SGAV, LGBV  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Packages (ADR) : V13  
 Special provisions for carriage - Bulk (ADR) : VC1, VC2  
 Special provisions for carriage - Loading, unloading : CV13  
 and handling (ADR)  
 Hazard identification number (Kemler No.) : 90



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Orange plates:

Tunnel restriction code (ADR) : -  
 EAC code: 2Z

**Transport by sea**

Special provisions (IMDG): 274, 335, 966, 967, 969  
 Packing instructions (IMDG): P002, LP02  
 Special packing provisions (IMDG) : PP12  
 IBC packing instructions (IMDG) : IBC08  
 IBC special provisions (IMDG) : B3  
 Tank instructions (IMDG) : T1, BK1, BK2, BK3  
 Tank special provisions (IMDG) : TP33  
 EmS-No. (Fire) : F-A  
 EmS-No. (Spillage) : S-F  
 Stowage category (IMDG) : A  
 Stowage and handling (IMDG): SW23

**Air transport**

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y956  
 PCA limited quantity max net quantity (IATA) : 30kgG  
 PCA packing instructions (IATA) : 956  
 PCA max net quantity (IATA) : 400kg  
 CAO packing instructions (IATA) : 956  
 CAO max net quantity (IATA) : 400kg  
 Special provisions (IATA) : A97, A158, A179, A197  
 ERG code (IATA) : 9L

**Inland waterway transport**

Classification code (ADN) : M7  
 Special provisions (ADN) : 274, 335, 375, 601  
 Limited quantities (ADN) : 5 kg  
 Excepted quantities (ADN): E1  
 Equipment required (ADN): PP, A  
 Number of blue cones/lights (ADN) 0  
 Additional requirements/Remarks (ADN) :  
 \* Only in the molten state.  
 \*\* For carriage in bulk see also 7.1.4.1.  
 \*\*\* Only in the case of transport in bulk.

**Rail transport**

Classification code (RID) : M7  
 Special provisions (RID) : 274, 335, 375, 601  
 Limited quantities (RID) : 5kg  
 Excepted quantities (RID) : E1  
 Packing instructions (RID) : P002, IBC08, LP02, R001  
 Special packing provisions (RID) : PP12, B3  
 Mixed packing provisions (RID) : MP10  
 Portable tank and bulk container instructions (RID): T1, BK1, BK2, BK3  
 Portable tank and bulk container special provisions (RID) : TP33

Tank codes for RID tanks (RID) : SGAV, LGBV  
 Transport category (RID) 3  
 Special provisions for carriage – Packages (RID) : W13  
 Special provisions for carriage – Bulk (RID) : VC1, VC2



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Special provisions for carriage - Loading, unloading : CW13, CW31 and handling (RID)

Colis express (express parcels) (RID) : CE11  
Hazard identification number (RID) : 90

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**  
Not available

## SECTION 15: Regulatory information

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

#### EU Regulations

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.

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 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) 2015/830 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).

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

#### National Regulations/legislation:

Refer to applicable national classification, packaging and labelling legislation.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for the mixture.

## SECTION 16: Other information

#### (a) Reasons for revision:

Update to latest version of REACH;  
Update of ingredient classification to reflect latest harmonized Annex VI version – Section 3;  
Addition of ATEs for ingredient – Section 3;  
Addition of ingredients with Workplace Exposure limits in Section 3.

#### (b) Abbreviations and acronyms:

Acute Tox. 3 (Inhalation): Acute Toxicity (Inhalation) Category 3.  
Acute Tox. 3 (Oral): Acute Toxicity (Oral) Category 3.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
Aquatic Acute 1: Hazardous to the aquatic environment — Acute Hazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment — Chronic Hazard, Category 1  
ATE: Acute Toxicity Estimate.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.

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CSR: Chemical safety report  
DNEL: Derived No Effect Level. EC50:  
EINECS: European Inventory of Existing Commercial Chemical Substances. GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
Inhal Acute Tox. 4: Acute Toxicity (Inhalation) Category 4.  
IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients. KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population. LD50: Lethal dose, for 50 percent of test population.  
N.A.: Not available  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
STOT SE2: Specific Target Organ Toxicity Single Exposure Category 2.  
TLV: Threshold Limiting Value.  
TWA: Time-weighted average  
UN: United Nations  
vPvB very persistent and very bioaccumulative  
WGK: German Water Hazard Class.

### (c) Key literature references and sources for data:

Safety Data Sheets for ingredients.  
ECHA Database  
ECHA Guidance on the compilation of safety data sheets  
ECHA guidance on the Application of the CLP Criteria

### (d) Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

### (e) Relevant H-statements and precautionary statements not written out in full under Sections 2 to 15:

H301 Toxic if swallowed.  
H331 Toxic if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

### (f) Training advice:

Employee instruction/training in handling hazardous materials is required.

### (g) Further information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.  
General occupational hygiene training recommended.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product