

# SAFETY DATA SHEET



## Cyazypyr® 300 OD insecticide

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

#### 1.1 Product identifier

**Product name** Cyazypyr® 300 OD insecticide

**Other means of identification**

**Product code** 50002726

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

Use of the Sub-stance/Mixture : Can be used as insecticide only.

Recommended restrictions on use : Use as recommended by the label.

#### 1.3 Manufacturer or supplier's details

**Supplier Address** FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673 Harboøre  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)  
1 202 / 483-7616 (CHEMTREC - Alternate International)

Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard, Category 1

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

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

#### **Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cyantraniliprole	736994-63-1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 30

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		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413	$\geq 1 - < 2,5$
docusate sodium	577-11-7 209-406-4	Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 1 - < 3$
2-ethylhexan-1-ol	104-76-7 203-234-3	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	$\geq 1 - < 10$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

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If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : Exposure to skin may result in mild symptoms include itching, hives or rash, and skin redness. More severe symptoms include sneezing, itchy watery eyes, and difficulty breathing.

Risks : May cause an allergic skin reaction.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
brominated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Chlorinated compounds  
Hydrogen chloride  
Hydrogen cyanide  
Hazardous combustion products  
Sulphur oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.

**6.2 Environmental precautions**

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labelled containers.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not

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eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-ethylhexan-1-ol	104-76-7	TWA	1 ppm 5,4 mg/m <sup>3</sup>	2017/164/EU

**8.2 Exposure controls****Personal protective equipment**

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Form	:	liquid
Colour	:	off-white
Odour	:	Faint odour
Odour Threshold	:	No data available
pH	:	4,59
		Method: CIPAC MT 75.3 (1% solution in water)
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	
Density	:	1,053 g/cm3
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	730 mPa.s (20 °C)
		6 rpm
		745 mPa.s (40 °C)
		6 rpm
Viscosity, kinematic	:	No data available
Explosive properties	:	
		Not explosive
Oxidizing properties	:	Non-oxidizing

**9.2 Other information**

Surface tension	:	37,9 mN/m, Regulation (EC) No. 440/2008, Annex, A.5
Molecular weight	:	Not applicable
Particle size	:	Not applicable
Self-ignition	:	No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.

**10.4 Conditions to avoid**Conditions to avoid : Avoid extreme temperatures  
Avoid formation of aerosol.**10.5 Incompatible materials**

Materials to avoid : Avoid strong acids, bases, and oxidizers

**10.6 Hazardous decomposition products**Stable under recommended storage conditions.  
No hazardous decomposition products are known.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**Information on likely routes of : Skin contact  
exposure**Acute toxicity**

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

**Product:**Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortalityAcute inhalation toxicity : LC50: > 5,16 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Breathing difficulties  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): &gt; 5.000 mg/kg



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Method: OECD Test Guideline 402  
Symptoms: Irritation  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

**Components:****Cyantraniliprole:**

Acute oral toxicity : LD50 (Mouse, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

**calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

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**docusate sodium:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 2.100 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rabbit, male): > 10.000 mg/kg Method: OECD Test Guideline 402

**2-ethylhexan-1-ol:**

Acute oral toxicity	:	LD50 (Rat, male): 2.047 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 4,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat, male and female): > 3.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

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

**Product:**

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.
Remarks	:	Minimal effects that do not meet the threshold for classification.

**Components:****Cyantraniliprole:**

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

**calcium dodecylbenzenesulphonate:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

**docusate sodium:**

Species	:	Rabbit
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Method : OECD Test Guideline 404  
Result : Skin irritation

### 2-ethylhexan-1-ol:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### Serious eye damage/eye irritation

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

### Product:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
Result : Slight or no eye irritation  
Remarks : Minimal effects that do not meet the threshold for classification.

### Components:

#### Cyantraniliprole:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
Result : slight irritation  
GLP : yes

#### calcium dodecylbenzenesulphonate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye  
Remarks : Based on data from similar materials

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

#### docosate sodium:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

#### 2-ethylhexan-1-ol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

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**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

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

**Product:**

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: The product is a skin sensitizer, sub-category 1B.

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

Remarks	: Causes sensitisation.
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**Components:****Cyantraniliprole:**

Test Type	: Local lymph node test
Exposure routes	: Dermal
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.
GLP	: yes

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
GLP	: yes

Test Type	: Buehler Test
Exposure routes	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
GLP	: yes

Test Type	: Magnusson-Kligman test
Exposure routes	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406

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Result : Causes skin sensitization.  
GLP : yes

Remarks : see user defined free text

### calcium dodecylbenzenesulphonate:

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
Remarks : Based on data from similar materials

### docosate sodium:

Exposure routes : Skin contact  
Species : Humans  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

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

### Components:

#### Cyantraniliprole:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: reverse mutation assay  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

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GLP: yes

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**docosate sodium:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Remarks: No data available

**2-ethylhexan-1-ol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

**Carcinogenicity**

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

**Components:****Cyantraniliprole:**

Species	: Rat, male and female
Application Route	: Ingestion
Exposure time	: 2 Years
NOAEL	: 200 - 2.000 ppm
Method	: OECD Test Guideline 453
Result	: negative

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Species	: Mouse, male and female
Application Route	: Ingestion
Exposure time	: 18 month(s)
NOAEL	: 7.000 ppm
Method	: OECD Test Guideline 451
Result	: negative

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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**calcium dodecylbenzenesulphonate:**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 720 d
NOAEL	: 250 mg/kg body weight
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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**2-ethylhexan-1-ol:**

Species	: Rat
Application Route	: Oral
Exposure time	: 24 month(s)
Result	: negative

**Reproductive toxicity**

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

**Components:****Cyantraniliprole:**

Effects on foetal development	: Test Type: Pre-natal Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 1.000 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 1.000 mg/kg bw/day Method: OECD Test Guideline 414 Result: negative
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	: Test Type: Pre-natal Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: 25 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 100 mg/kg bw/day Symptoms: Maternal effects Method: OECD Test Guideline 414 Result: negative
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Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity
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**calcium dodecylbenzenesulphonate:**

- Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity - Parent: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**docusate sodium:**

- Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative
- Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Duration of Single Treatment: 6 - 15 d  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

**2-ethylhexan-1-ol:**

- Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

**STOT - single exposure**

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

**Components:****Cyantraniliprole:**

- Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.



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**2-ethylhexan-1-ol:**

Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

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

**Components:****Cyantraniliprole:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity****Components:****Cyantraniliprole:**

Species : Rat, male and female  
NOAEL : 6,9 - 168 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 90 d  
Method : OPPTS 870.3100  
Remarks : Effects are of limited toxicological significance.

Species : Mouse, male and female  
NOAEL : 1091,8 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 90 d  
Method : OPPTS 870.3100  
Remarks : Effects are of limited toxicological significance.

Species : Dog, male and female  
NOAEL : 3,08 - 3,48 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 90 d  
Method : OPPTS 870.3150  
Remarks : Effects are of limited toxicological significance.

Species : Rat, male and female  
NOAEL : 8,3 - 106,6 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 2 years  
Method : OPPTS 870.4300  
Remarks : Effects are of limited toxicological significance.

Species : Mouse, male and female  
NOAEL : 768,8 - 903,8 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 18 months  
Method : OPPTS 870.4200  
Remarks : Effects are of limited toxicological significance.

Species : Dog, male and female

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NOAEL : 5,67 - 6 mg/kg bw/day  
Application Route : Ingestion  
Exposure time : 1 year  
Method : OPPTS 870.4100  
Remarks : Effects are of limited toxicological significance.

Species : Rat, male and female  
NOAEL : 1000 mg/kg  
Application Route : Dermal  
Exposure time : 28 d  
Method : OECD Test Guideline 410  
GLP : yes  
Symptoms : Irritation  
Remarks : Effects are of limited toxicological significance.

### calcium dodecylbenzenesulphonate:

Species : Rat, male and female  
NOAEL : 85 mg/kg  
LOAEL : 145 mg/kg  
Application Route : Oral  
Exposure time : 9 Months  
Remarks : Based on data from similar materials

Species : Rat, male  
LOAEL : 286 mg/kg  
Application Route : Skin contact  
Exposure time : 15 Days  
Remarks : Based on data from similar materials

Species : Rat, male and female  
NOAEL : 100 mg/kg bw/day  
LOAEL : 200 mg/kg bw/day  
Application Route : Oral - gavage  
Exposure time : 28 - 54 Days  
Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials

### docusate sodium:

Species : Rat, male and female  
NOAEL : 750 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

### 2-ethylhexan-1-ol:

Species : Rat  
LOAEL : 250 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

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**Aspiration toxicity**

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

**Components:****Cyantraniliprole:**

The substance does not have properties associated with aspiration hazard potential.

**Neurological effects****Components:****Cyantraniliprole:**

No neurotoxicity observed in animal studies

**Further information****Product:**

Remarks : No data available

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 53 mg/l Exposure time: 96 h Test Type: Static renewal test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,096 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: EyC50 (Raphidocelis subcapitata (freshwater green alga)): ca. 6,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 GLP: yes
Toxicity to terrestrial organisms	: LD50: > 750 mg/kg End point: Acute oral toxicity Species: Colinus virginianus (Bobwhite quail) Method: OECD Test Guideline 223 GLP:yes  LD50: 0,59 µg/bee Exposure time: 48 d End point: Acute oral toxicity

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Species: *Apis mellifera* L.  
Method: OECD Test Guideline 213

LD50: 1,06 µg/bee  
Exposure time: 48 d  
End point: Acute contact toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 214

ER50: > 1000 g/ha  
Species: *Typhlodromus pyri*.

LR50: > 1000 g/ha  
Species: *Typhlodromus pyri*.

**Components:****Cyantraniliprole:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 12,6 mg/l  
Exposure time: 96 h  
Method: US EPA Test Guideline OPP 72-1  
GLP: yes

LC50 (*Ictalurus punctatus* (channel catfish)): > 10 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,0204 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 13 mg/l  
Exposure time: 72 h

ErC50 (*Lemna gibba* (duckweed)): 0,278 mg/l  
Exposure time: 7 d

EyC50 (*Lemna gibba* (duckweed)): 0,060 mg/l  
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 2,9 mg/l  
Exposure time: 28 d  
Species: *Cyprinodon variegatus* (sheepshead minnow)

NOEC: 0,11 mg/l  
Exposure time: 21 d  
Species: *Oncorhynchus mykiss* (rainbow trout)

NOEC: 1,01 mg/l  
Exposure time: 90 d  
Species: *Oncorhynchus mykiss* (rainbow trout)

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		Test Type: Early Life-Stage Method: US EPA Test Guideline OPP 72-4 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,00656 mg/l End point: Growth Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Static-Renewal Method: US EPA Test Guideline OPPTS 850.1300 GLP: yes  LOEC: 0,00969 mg/l End point: Growth Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Static-Renewal Method: US EPA Test Guideline OPPTS 850.1300 GLP: yes  NOEC: 0,00447 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)  NOEC: 0,72 mg/l End point: reproduction Exposure time: 35 d Species: Americamysis bahia (mysid shrimp) Test Type: flow-through test Method: US EPA Test Guideline OPP 72-4 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	10
Toxicity to soil dwelling organisms	:	NOEC: 1.000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222 GLP:yes  Method: OECD Test Guideline 216 Remarks: No significant adverse effect on nitrogen mineralization.  Method: OECD Test Guideline 217 Remarks: No significant adverse effect on carbon mineralization.
Toxicity to terrestrial organisms	:	LD50: > 0.0934 µg/bee Exposure time: 72 h End point: Acute contact toxicity

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Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214  
GLP:yes

LD50: > 0.1055 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213  
GLP:yes

LD50: > 2.250 mg/kg  
End point: Acute oral toxicity  
Species: Colinus virginianus  
Method: US EPA Test Guideline OPPTS 850.2100  
GLP:yes

NOEC: 1.000 ppm  
End point: Reproduction Test  
Species: Anas platyrhynchos (Mallard duck)  
Method: OECD Test Guideline 206  
GLP:yes

**calcium dodecylbenzenesulphonate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4,6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65,4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,65 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

NOEC: 1,18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: 1.356 mg/kg  
Exposure time: 14 d  
Species: Colinus virginianus (Bobwhite quail)  
Method: OECD Test Guideline 223

**Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

**docusate sodium:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 49 mg/l  
Exposure time: 96 h  
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15,2 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 82,5 mg/l  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to microorganisms : EC50 (Pseudomonas putida): 164 mg/l  
Exposure time: 16,5 h  
Method: DIN 38 412 Part 8

EC10 (Pseudomonas putida): 122 mg/l  
Exposure time: 16,5 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 9 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

**2-ethylhexan-1-ol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l Exposure time: 72 h  EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l Exposure time: 72 h

### 12.2 Persistence and degradability

#### Components:

##### **Cyantraniliprole:**

Biodegradability	:	Remarks: Not readily biodegradable.
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##### **calcium dodecylbenzenesulphonate:**

Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301E
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##### **docosate sodium:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 91 % Exposure time: 28 d
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##### **2-ethylhexan-1-ol:**

Biodegradability	:	Result: Readily biodegradable.
------------------	---	--------------------------------

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation	:	Remarks: No data available
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#### Components:

##### **Cyantraniliprole:**

Bioaccumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): < 1 Remarks: Bioaccumulation is unlikely.
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Partition coefficient: n-octanol/water	:	log Pow: 1,97 (22 °C) pH: 4
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	:	log Pow: 2,07 (22 °C) pH: 7
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log Pow: 1,74 (22 °C)  
pH: 9

### calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70,79  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4,77 (25 °C)

### docusate sodium:

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: 1,998 (20 °C)

### 2-ethylhexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

## 12.4 Mobility in soil

### Components:

#### Cyantraniliprole:

Distribution among environmental compartments : Koc: 241 ml/g, log Koc: 2,38  
Kd: 3,73 ml/g  
Remarks: Mobile in soils

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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### Components:

#### **Cyantraniliprole:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Appropriate personal protective equipment, as described in Sections 7 and 8, should be worn when handling materials for waste disposal.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyantraniliprole)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyantraniliprole)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(Cyantraniliprole)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Cyantraniliprole)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III

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Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

#### The components of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory

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KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture.

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**SECTION 16: Other information****Full text of H-Statements**

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.

**Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
2017/164/EU / TWA	:	Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China;

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IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information :

#### Classification of the mixture:

Skin Sens. 1B	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method

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