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**Naphthenic acids, copper salts:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	Causes sensitization.
Remarks	:	Based on data from similar materials

**2-ethylhexanoic acid, copper salt:**

Test Type	:	Open epicutaneous test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Quartz (SiO<sub>2</sub>):**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Rat Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials

**2,2'-oxydiethanol:**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative

**Naphthenic acids, copper salts:**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Ingestion Exposure time: 48 h Method: Mutagenicity (micronucleus test) Result: negative

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Remarks: Based on data from similar materials

### **2-ethylhexanoic acid, copper salt:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: Mutagenicity (micronucleus test)  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Remarks : No significant adverse effects were reported

#### **2,2'-oxydiethanol:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 108 weeks  
Result : negative

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Effects on fertility : Remarks: No significant adverse effects were reported

#### **2,2'-oxydiethanol:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Mouse, male and female  
Application Route: Oral  
Result: negative

Effects on fetal development : Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses

### **Naphthenic acids, copper salts:**

Effects on fertility : Species: Rat, male and female

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Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity F1: NOAEL: 100 mg/kg body weight  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rabbit  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 7.5 mg/kg body weight  
Developmental Toxicity: NOAEL: 15 mg/kg body weight  
Target Organs: Stomach, Kidney  
Method: OECD Test Guideline 414  
Result: positive  
Remarks: Based on data from similar materials

### **2-ethylhexanoic acid, copper salt:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rabbit  
Application Route: Oral

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### **STOT-single exposure**

Causes damage to organs.

#### **Components:**

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Target Organs : Central nervous system, Peripheral nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

### **STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure.

#### **Components:**

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Target Organs : Central nervous system, Peripheral nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### **Quartz (SiO<sub>2</sub>):**

Routes of exposure : Inhalation



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Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### Repeated dose toxicity

#### Components:

##### **Quartz (SiO<sub>2</sub>):**

Species : Rat  
: 0.0025 mg/l  
Application Route : Inhalation  
Exposure time : 90 day  
Method : OECD Test Guideline 413  
Target Organs : Lungs  
Remarks : Based on data from similar materials

##### **2,2'-oxydiethanol:**

Species : Rat, male and female  
NOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 98 d

Species : Dog, male  
NOAEL : 2,220 mg/kg  
Exposure time : 28 d  
Method : OECD Test Guideline 410

##### **Naphthenic acids, copper salts:**

Species : Mouse, male and female  
NOAEL : 1,000 mg/l  
LOAEL : 2,000 mg/l  
Application Route : Ingestion  
Method : Regulation (EC) No. 440/2008, Annex, B.26  
Remarks : Based on data from similar materials

##### **2-ethylhexanoic acid, copper salt:**

Species : Mouse  
NOAEL : 180 - 205 mg/kg  
Application Route : Oral  
Exposure time : 13 weeks

Species : Rat  
NOAEL : 2 mg/l  
Application Route : Inhalation  
Exposure time : 28 d  
Method : OECD Test Guideline 412

##### **Aspiration toxicity**

Not classified based on available information.

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**Product:**

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

**Further information**

**Product:**

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Product:**

Toxicity to fish : LC50 (Salmo gairdneri): 0.13 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.75 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus subspicatus): 5.7 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC: 5.2 µg/l  
Exposure time: 95 d  
Species: Salmo gairdneri

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.231 µg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

Toxicity to terrestrial organisms : LD50: 16.1 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LC50: 1.8 µg/bee  
Species: Apis mellifera (bees)  
Remarks: Contact

LC50: 2.07 µg/bee  
Species: Apis mellifera (bees)  
Remarks: Oral

**Components:**

**S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.17 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0.0013 mg/l  
Exposure time: 48 h

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- Toxicity to algae/aquatic plants : EC50 (algae): 5.3 mg/l  
Exposure time: 96 h
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to fish (Chronic toxicity) : NOEC: 0.0052 mg/l  
Exposure time: 21 d  
Species: Fish
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.00023 mg/l  
Exposure time: 21 d
- M-Factor (Chronic aquatic toxicity) : 100
- Toxicity to terrestrial organisms : LD50: 1.08 µg/bee  
Species: Apis mellifera (bees)  
Remarks: Contact
- LD50: 2.07 µg/bee  
Species: Apis mellifera (bees)  
Remarks: Oral
- LD50: 16.1 mg/kg  
Species: Colinus virginianus (Bobwhite quail)
- Quartz (SiO<sub>2</sub>):**
- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
Exposure time: 72 h
- 2,2'-oxydiethanol:**
- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75,200 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 24 h
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC20 (activated sludge): > 1,995 mg/l  
Exposure time: 30 min  
Test Type: Respiration inhibition  
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : NOEC: 15,380 mg/l  
Exposure time: 7 d  
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other : NOEC: 8,590 mg/l

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aquatic invertebrates (Chronic toxicity)      Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)

### Naphthenic acids, copper salts:

Toxicity to fish      :    LC50 (Pimephales promelas (fathead minnow)): 38.4 µg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 5.62 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates      :    EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants      :    ErC50 (Pseudokirchneriella subcapitata (green algae)): 29.6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity)      :    10

Toxicity to microorganisms      :    EC50 (Vibrio fischerii (Bacteria)): 13 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity)      :    NOEC: 18.9 µg/l  
Exposure time: 7 d  
Species: Pimephales promelas (fathead minnow)

NOEC: 120 µg/l  
End point: mortality  
Exposure time: 64 d  
Species: Fish  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)      :    NOEC: 6.3 µg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Remarks: Based on data from similar materials

NOEC: 4 µg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Remarks: Based on data from similar materials

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M-Factor (Chronic aquatic toxicity) : 10

### 2-ethylhexanoic acid, copper salt:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 180 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85.4 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Lemna minor (duckweed)): 0.030 mg/l  
Exposure time: 7 d  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 49.3 mg/l  
Exposure time: 96 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): 112.1 mg/l  
Exposure time: 17 h  
Method: DIN 38 412 Part 8

Toxicity to fish (Chronic toxicity) : NOEC: 0.0022 mg/l  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

Chronic Toxicity Value: 75 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

Chronic Toxicity Value: 63 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

## 12.2 Persistence and degradability

### Components:

#### Quartz (SiO<sub>2</sub>):

Biodegradability : Result: Not biodegradable

#### 2,2'-oxydiethanol:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 25 - 92 %  
Exposure time: 28 d

### **Naphthenic acids, copper salts:**

Biodegradability : Result: Inherently biodegradable.  
Remarks: Based on data from similar materials

### **2-ethylhexanoic acid, copper salt:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 99 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

## 12.3 Bioaccumulative potential

### Components:

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

Bioaccumulation : Bioconcentration factor (BCF): 220

Partition coefficient: n-octanol/water : log Pow: 3.9

#### **Quartz (SiO<sub>2</sub>):**

Bioaccumulation : Remarks: Does not bioaccumulate.

#### **2,2'-oxydiethanol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): 100

Partition coefficient: n-octanol/water : log Pow: -1.98 (20 °C)

#### **Naphthenic acids, copper salts:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 4 d  
Bioconcentration factor (BCF): 2

Partition coefficient: n-octanol/water : log Pow: 7.65

#### **2-ethylhexanoic acid, copper salt:**

Partition coefficient: n-octanol/water : log Pow: 2.96

## 12.4 Mobility in soil

### Components:

#### **S,S-di-sec-butyl O-ethyl phosphorodithioate:**

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Distribution among environmental compartments : Remarks: Moderately 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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## 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.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

IMDG : UN 2811

IATA : UN 2811

### 14.2 UN proper shipping name

IMDG : TOXIC SOLID, ORGANIC, N.O.S.  
(Cadusafos, Copper naphthenate)

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**IATA** : Toxic solid, organic, n.o.s.  
(Cadusafos)

### 14.3 Transport hazard class(es)

**IMDG** : 6.1

**IATA** : 6.1

### 14.4 Packing group

**IMDG**  
Packing group : II  
Labels : 6.1  
EmS Code : F-A, S-A

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 676  
Packing instruction (LQ) : Y644  
Packing group : II  
Labels : Toxic

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 669  
Packing instruction (LQ) : Y644  
Packing group : II  
Labels : Toxic

### 14.5 Environmental hazards

**IMDG**  
Marine pollutant : 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.

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## SECTION 15: Regulatory information

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

**The ingredients of this product are reported in the following inventories:**

TCSI : On the inventory, or 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 the following components that are not



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- on the Canadian DSL nor NDSL.
- S,S-DI-SEC-BUTYL O-ETHYL PHOSPHORODITHIOATE
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : On the inventory, or 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

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#### SECTION 16: Other information

##### Full text of H-Statements

- H226 : Flammable liquid and vapor.
- H300 : Fatal if swallowed.
- H301 : Toxic if swallowed.
- H302 : Harmful if swallowed.
- H310 : Fatal in contact with skin.
- H312 : Harmful in contact with skin.
- H318 : Causes serious eye damage.
- H330 : Fatal if inhaled.
- H361 : Suspected of damaging fertility or the unborn child.
- H370 : Causes damage to organs.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H372 : Causes damage to organs through prolonged or repeated exposure if inhaled.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.

##### 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
- Flam. Liq. : Flammable liquids
- Repr. : Reproductive toxicity
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure
- 2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
- ZA OEL : South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits

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2004/37/EC / TWA                    : Long term exposure limit  
ZA OEL / OEL- ML                    : Occupational Exposure Limit Maximum limit - 8- hour exposure or equivalent (12 hour shifts).

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; 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

Other information                    :

### Classification of the mixture:

Acute Tox. 4	H302
Acute Tox. 2	H330
Acute Tox. 2	H310
Skin Sens. 1	H317
STOT SE 1	H370
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

### Classification procedure:

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

### Disclaimer

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