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# **DEUREX EO 4401 W**

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

#### 1.1. Product identifier

Trade name/designation:

# DEUREX EO 4401 W

#### UFI:

J500-C029-G00J-DN7D

# 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Additive

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

# Supplier (manufacturer/importer/only representative/downstream user/distributor):

#### **DEUREX AG**

Dr.-Bergius-Str. 8 – 12 06729 Elsteraue

Germany

**Telephone:** +49(0)3441 / 8 29 29 29 **Telefax:** +49(0)3441 / 8 29 29 28

**E-mail:** info@deurex.com **Website:** www.deurex.com

#### 1.4. Emergency telephone number

Common poisons information centre of the Federal States

Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia

D-99089 Erfurt, 24h: +49(0)361-730730

# **SECTION 2: Hazards identification**

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

### Classification according to Regulation (EC) No 1272/2008 [CLP]

1000 months according to hoganization (20, 110 22, 2, 2000 to 21)			
Hazard classes and hazard categories	Hazard statements	Classification procedure	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.	

# 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



GHS07 Exclamation mark Signal word: Warning

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#### Hazard components for labelling:

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); potassium hydroxide; Alcohols, C9-11, ethoxylated

Hazard statements for health hazards	
H319	Causes serious eye irritation.

Supplemental hazard information	
EUH208	Contains May produce an allergic reaction.

Precautionary statements Prevention		
P270	Do not eat, drink or smoke when using this product.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/	

Precautionary statements Response	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

## **Description:**

emulsion

# Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68439-46-3 EC No.: 215-181-3	Alcohols, C9-11, ethoxylated Eye Irrit. 2 (H319)  • Warning	5 – 10 weight-%
CAS No.: 1310-58-3 EC No.: 220-120-9 Index No.: 019-002-00-8	potassium hydroxide Acute Tox. 4 (H302), Skin Corr. 1A (H314)  Plans Danger  Specific concentration limit (SCL)  Skin Corr. 1A; H314: $C \ge 5\%$ Skin Corr. 1B; H314: $2\% \le C < 5\%$ Skin Irrit. 2; H315: $0.5\% \le C < 2\%$ Eye Dam. 1; H318: $C \ge 2\%$ Eye Irrit. 2; H319: $0.5\% \le C < 2\%$ Acute Toxicity Estimate  ATE (oral) 500 mg/kg	0.5 – 1 weight-%
CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60	1,2-Benzisothiazol-3-one Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger Specific concentration limit (SCL) Skin Sens. 1; H317: C ≥ 0.05% Acute Toxicity Estimate ATE (oral) 490 mg/kg ATE (dermal) > 2,000 mg/kg	< 0.005 weight-%

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Classification according to Regulation (EC) No 1272/2008 [CLP]	Product identifiers	Substance name	Concentration
EC No.: 911-418-6   <b>247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]</b>   weight-%   (3:1)		Classification according to Regulation (EC) No 1272/2008 [CLP]	
Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1C (H314), Skin Sens. 1A (H317)  Danger EUH071 M-factor (acute): 100 M-factor (chronic): 100  Specific concentration limit (SCL) Skin Corr. 1C; H314: C ≥ 0.6% Skin Irrit. 2; H315: 0.06% ≤ C < 0.6% Eye Dam. 1; H318: C ≥ 0.6% Eye Irrit. 2; H319: 0.06% ≤ C < 0.6% Skin Sens. 1A; H317: C ≥ 0.0015%  Acute Toxicity Estimate ATE (oral) 200 mg/kg ATE (dermal) > 1,008 mg/kg	EC No.: 911-418-6 Index No.: 613-167-00-5 REACH No.:	Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  Acute Tox. 2 (H330, H310), Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1C (H314), Skin Sens. 1A (H317)  Danger EUH071  M-factor (acute): 100 M-factor (chronic): 100  Specific concentration limit (SCL) Skin Corr. 1C; H314: $C \ge 0.6\%$ Skin Irrit. 2; H315: $0.06\% \le C < 0.6\%$ Eye Dam. 1; H318: $C \ge 0.6\%$ Eye Irrit. 2; H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1A; H317: $C \ge 0.0015\%$ Acute Toxicity Estimate ATE (oral) 200 mg/kg	

Full text of H- and EUH-phrases: see section 16.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

Wash with plenty of water/soap. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

# Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

### Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media:

Water, Foam, Dry extinguishing powder,

## Unsuitable extinguishing media:

Full water jet

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

# **Hazardous combustion products:** In case of fire: Gases/vapours, toxic

# **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

## 6.1.1. For non-emergency personnel

## **Personal precautions:**

Remove persons to safety.

#### **Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

#### Personal protection equipment:

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

## **Protective measures**

### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

# 7.2. Conditions for safe storage, including any incompatibilities

# Technical measures and storage conditions:

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

## Requirements for storage rooms and vessels:

storage temperature: 5-30°C

**Storage class (TRGS 510, Germany):** 12 - non-combustible liquids that cannot be assigned to any of

the above storage classes

# Further information on storage conditions:

Protect against: Frost, Heat

# 7.3. Specific end use(s)

No data available

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# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No data available

## 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

No data available

### 8.2.2. Personal protection equipment

#### **Eye/face protection:**

Eye glasses with side protection EN 166

# Skin protection:

Tested protective gloves must be worn EN ISO 374

Suitable material: PVC. Chloroprenkautschuk. Nitrilkautschuk. Butylkautschuk.

Breakthrough time: > 480 min.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

#### 8.2.3. Environmental exposure controls

No data available

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Liquid Form: emulsion

Colour: light yellow Odour: not determined

flammability: No data available Safety relevant basis data

Parameter	Value	at °C	1 Method
			② Remark
рН	7 - 10		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	100 °C		
Flash point	No data available		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1 g/cm³		
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	20 mPa* s	23 °C	
Kinematic viscosity	No data available		

#### 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

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#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

exposure to cold. Do not freeze, Heat

#### 10.5. Incompatible materials

No data available

# 10.6. Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

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

**1,2-Benzisothiazol-3-one** CAS No.: 2634-33-5 EC No.: 220-120-9

LD<sub>50</sub> oral: 490 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)

LD<sub>50</sub> dermal: >2,000 mg/kg (rat) EPA OPP 81-2 (Acute Dermal Toxicity)

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one

[EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6

LD<sub>50</sub> oral: 200 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

 $LD_{50}$  dermal: >1,008 mg/kg (rat)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): 0.171 mg/L 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

# Skin corrosion/irritation:

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

# Serious eye damage/irritation:

Causes serious eye irritation.

# Respiratory or skin sensitisation:

Contains .... May produce an allergic reaction.

# Germ cell mutagenicity:

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

## **Carcinogenicity:**

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

### Reproductive toxicity:

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

# **STOT-single exposure:**

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

#### STOT-repeated exposure:

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

#### **Aspiration hazard:**

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

#### **Additional information:**

No data available

#### 11.2. Information on other hazards

No data available

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# **SECTION 12: Ecological information**

### 12.1. Toxicity

**1,2-Benzisothiazol-3-one** CAS No.: 2634-33-5 EC No.: 220-120-9

**LC<sub>50</sub>:** 2.15 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC<sub>50</sub>: 1.2 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

**EC**<sub>50</sub>: 0.07 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC<sub>50</sub>: 2.9 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**NOEC:** 0.0403 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

**Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)** CAS No.: 55965-84-9 EC No.: 911-418-6

LC<sub>50</sub>: 0.0052 mg/L 4 d (Onchorhyncus mykiss) OECD 203

**LC<sub>50</sub>:** 0.19 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA OPP 72-1 (Fish Acute Toxicity Test)

LC50: 0.18 mg/L 2 d (crustaceans, Daphnia magna) EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

**LC<sub>50</sub>:** 0.282 mg/L 4 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)

EC<sub>50</sub>: 0.048 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

**EC<sub>50</sub>:** 0.0181 mg/L 2 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))

EC<sub>50</sub>: 0.0063 mg/L 3 d (Algae/water plant, Skeletonema costatum)

**EC<sub>50</sub>:** 0.0357 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))

EC50: 0.099 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC: 0.00064 mg/L 21 d (crustaceans) OECD 211

NOEC: 0.00049 mg/L 2 d (Algae/water plant, Skeletonema costatum)

NOEC: 0.0014 mg/L 3 d (Algae/water plant, Skeletonema costatum)

**NOEC:** 0.13 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA OPP 72-1 (Fish Acute Toxicity Test)

**NOEC:** 0.098 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 215 (Fish, Juvenile Growth Test)

**NOEC:** 0.1 mg/L 21 d (crustaceans, Daphnia magna) EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies)

**LOEC:** 0.144 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 215 (Fish, Juvenile Growth Test)

#### 12.2. Persistence and degradability

**Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)** CAS No.: 55965-84-9 EC No.: 911-418-6

**Biodegradation:** Yes, rapidly

#### 12.3. Bioaccumulative potential

**1,2-Benzisothiazol-3-one** CAS No.: 2634-33-5 EC No.: 220-120-9

Log K<sub>OW</sub>: 1.47

**Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)** CAS No.: 55965-84-9 EC No.: 911-418-6

Log K<sub>OW</sub>: 117

**Bioconcentration factor (BCF): 3.16** 

# 12.4. Mobility in soil

No data available

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

**Alcohols, C9-11, ethoxylated** CAS No.: 68439-46-3 EC No.: 215-181-3

Results of PBT and vPvB assessment: -

potassium hydroxide CAS No.: 1310-58-3 EC No.: 220-120-9

Results of PBT and vPvB assessment: -

**1,2-Benzisothiazol-3-one** CAS No.: 2634-33-5 EC No.: 220-120-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one

[EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Waste treatment options**

#### **Appropriate disposal / Product:**

Consult the appropriate local waste disposal expert about waste disposal.

# **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number	•	
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	ping name		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haza	rd class(es)		
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precau	tions for user		
not relevant	not relevant	not relevant	not relevant

# 14.7. Maritime transport in bulk according to IMO instruments

No data available

# **SECTION 15: Regulatory information**

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

# 15.1.1. EU legislation

No data available

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#### 15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

keine Angabe

### 15.2. Chemical Safety Assessment

No data available

#### **SECTION 16: Other information**

# 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

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

Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

DIN German Institute for Standardization / German Industrial Standard

DNEL derived no-effect level EC<sub>50</sub> Effective Concentration 50%

EN European Standard ES Exposure scenario

ICAO International Civil Aviation Organization
 IMDG International Maritime Dangerous Goods
 IMO International Maritime Organization
 ISO International Standards Organisation
 LC50 Lethal (fatal) Concentration 50%

LD<sub>50</sub> Lethal (fatal) Dose 50%

MAK Maximum concentration in the workplace air (CH)

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety & Health

NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT persistent and bioaccumulative and toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

SCL Specific concentration limit

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

#### 16.3. Key literature references and sources for data

Substance name	Туре	source of supply
Alcohols, C9-11, ethoxylated CAS No.: 68439-46-3 EC No.: 215-181-3	Classification of the substance or mixture	Source: European Chemicals Agency, http://echa.europa.eu/
<b>1,2-Benzisothiazol-3-one</b> CAS No.: 2634-33-5 EC No.: 220-120-9	$LD_{50}$ oral; $LD_{50}$ dermal; $LC_{50}$ ; $EC_{50}$ ; $NOEC$	Source: European Chemicals Agency, http://echa.europa.eu/
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6	$LD_{50}$ oral; $LD_{50}$ dermal; $LC_{50}$ Acute inhalation toxicity (dust/mist); $LC_{50}$ ; $EC_{50}$ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

# 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH071	Corrosive to the respiratory tract.

# 16.6. Training advice

No data available

# 16.7. Additional information

No data available

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