

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DORMEX®

Version 8.5 / REG\_EU  
Revision Date: 08.07.2021

Specification: 132506  
Material no.:

Date of first issue: 08.07.2021  
Print Date: 19.11.2021

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

### 1.1 Product identifier

Trade name : DORMEX®  
Registration number : if available listed in Chapter. 3  
Unique Formula Identifier (UFI) : 2EF0-C0N6-900Y-69PV

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

Use of the Sub-stance/Mixture : Agricultural products

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

Company : Alzchem Trostberg GmbH  
Dr.-Albert-Frank-Str. 32  
83308 Trostberg, Germany  
Telephone : +49 8621 86-3351  
E-mail address of person responsible for the SDS : alz-pst@alzchem.com

### 1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776  
Alzchem Trostberg GmbH, Fire Brigade

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

|  |  |
|--|--|
| Acute toxicity, Category 3                                     | H301: Toxic if swallowed.  |
| Acute toxicity, Category 4                                     | H312: Harmful in contact with skin.  |
| Skin corrosion, Category 1                                     | H314: Causes severe skin burns and eye damage.                                   |
| Skin sensitisation, Category 1                                 | H317: May cause an allergic skin reaction.                                       |
| Serious eye damage, Category 1                                 | H318: Causes serious eye damage.   |
| Carcinogenicity, Category 2                                    | H351: Suspected of causing cancer.   |
| Reproductive toxicity, Category 2                              | H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure.         |

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Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

|                                |   |  |
|--------------------------------|---|--|
| Hazard pictograms              | : |    |
| Signal word                    | : | Danger   |
| Hazard statements              | : | H301 Toxic if swallowed.<br>H312 Harmful in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H351 Suspected of causing cancer.<br>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H412 Harmful to aquatic life with long lasting effects.   |
| Supplemental Hazard Statements | : | EUH401 To avoid risks to human health and the environment, comply with the instructions for use.   |
| Precautionary statements       | : | <b>Prevention:</b><br>P260 Do not breathe mist or vapours.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br><b>Response:</b><br>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br><b>Storage:</b><br>P405 Store locked up. |

### 2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

Violent, exothermic reaction with acids, bases and temperatures above 40°C.  
Use of alcoholic beverages enhances the toxic effects.

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The oral take-up may lead to acute dysfunctions of the blood circuit and/or the central nervous system.  
Dermal absorption possible

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : aqueous solution with cyanamide

#### Components

| Chemical name             | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number          | Classification  | Concentration<br>(% w/w) |
|---------------------------|--|---|--------------------------|
| cyanamide, carbamonitrile | 420-04-2<br>206-992-3<br>615-013-00-2<br>01-2119429091-49-0000 | Acute Tox. 3; H301<br>Acute Tox. 3; H311<br>Skin Corr. 1; H314<br>Skin Sens. 1; H317<br>Eye Dam. 1; H318<br>Carc. 2; H351<br>Repr. 2; H361fd<br>STOT RE 2; H373<br>(thyroid.)<br>Aquatic Chronic 3;<br>H412                             | 49 - 51                  |
| Orthophosphoric acid      | 7664-38-2<br>231-633-2<br>01-2119485924-24-XXXX                | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br><br>specific concentration<br>limit<br>Skin Corr. 1B; H314<br>>= 25 %<br>Skin Irrit. 2; H315<br>10 - < 25 %<br>Eye Irrit. 2; H319<br>10 - < 25 % | < 2                      |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Remove contaminated or soaked clothing immediately and dispose of safely.  
If exposed or in case of symptoms caused by eye or skin contact, inhalation or swallowing, consult a physician.  
After absorbing large amounts of substance:  
Immediately contact a doctor or Poisons Information Centre,

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and follow the advice given.

- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with plenty of water and soap immediately. Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Remove contact lenses if this can be easily done.  
Immediate further treatment in ophthalmic hospital/ ophthalmologist.
- If swallowed : Do NOT induce vomiting.  
Drink 1 or 2 glasses of water.  
Call a physician immediately.  
If conscious and medical aid is not available immediately, induce vomiting. Be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

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

- Symptoms : Erythema  
Fall in blood pressure  
increased pulse frequency,  
Nausea  
feeling of burning,  
headache  
Irritation of mucous membranes  
after the intake of large amounts circulatory depression up to unconsciousness are possible
- Risks : Caution: Alcoholic beverages interact with cyanamide.  
Symptoms showing flush are possible (difficulty in breathing, bright red face).  
The symptoms of this interaction disappear rapidly and are generally harmless.

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

- Treatment : No specific antidote known.  
Symptomatic treatment.  
After the intake of small amounts: administer activated charcoal, sodium sulfate and much liquid orally.  
After the intake of large amounts: monitoring of circulatory functions, if necessary irrigation of the stomach preventing aspiration and taking into account the irritating properties to mucous membranes.  
In case of skin irritation, use corticoid containing external preparations.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray, foam, CO<sub>2</sub>, dry powder.

Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Product itself is not combustible (Product contains water).

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

Further information : Containers exposed to heat (fire) may build up pressure. Cool by splashing with water.  
Closed container may rupture if strongly heated.  
Do not contaminate surface water.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6: Accidental release measures

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

Personal precautions : Wear personal protective equipment; see section 8.  
Ensure adequate ventilation.

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Dike or contain spill.  
Shut off source of leak if safe to do so.

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

Methods for cleaning up : Absorb with liquid-binding material, e. g.: saw dust, sand, universal binder  
Pour into containers which can be tightly sealed.  
Disposal according to local authority regulations.  
Don't use a high-pressure cleaner in order to avoid the formation of aerosols.  
Rinse away any residue with plenty of water.

#### 6.4 Reference to other sections

For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Product is only handled and chemically converted when tightly enclosed within a processing system.  
For professional use only.  
Avoid formation of aerosol.  
Use only in well-ventilated areas.  
Observe the rules usually applicable when handling chemicals.
- Advice on protection against fire and explosion : Keep away from combustible material. Avoid temperatures above 35°C Do not concentrate the product by evaporation.  
May cause violent decomposition.
- Hygiene measures : Do not inhale vapours / aerosols. Contact with skin, eyes and clothes must be strictly avoided Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Do not consume alcoholic beverages prior to, during and 24 hours after handling the product. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

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

- Requirements for storage areas and containers : Keep away from direct sunlight. Keep locked up.
- Advice on common storage : Incompatible with acids and bases.  
Keep away from food, drink and animal feedingstuffs.
- Recommended storage temperature : < 20 °C
- Packaging material : Suitable material: polyethylene, Polypropylene, enamel, Austenitic steel

### 7.3 Specific end use(s)

- Specific use(s) : We are unaware of any specific end uses which go beyond the data reported in Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|-------|
|------------|---------|-------------------------------|--------------------|-------|

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|                           |  |      |                                 |            |
|---------------------------|--|------|---------------------------------|------------|
| cyanamide, carbamonitrile | 420-04-2   | TWA  | 0.58 ppm<br>1 mg/m <sup>3</sup> | 2006/15/EC |
|                           | Further information: Identifies the possibility of significant uptake through the skin, Indicative |      |                                 |            |
| Orthophosphoric acid      | 7664-38-2  | TWA  | 1 mg/m <sup>3</sup>             | 2000/39/EC |
|                           | Further information: Indicative  |      |                                 |            |
|                           |  | STEL | 2 mg/m <sup>3</sup>             | 2000/39/EC |
|                           | Further information: Indicative  |      |                                 |            |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name            | End Use            | Exposure routes | Potential health effects   | Value                     |
|---------------------------|--------------------|-----------------|----------------------------|---------------------------|
| cyanamide, carbamonitrile | Worker             | Inhalation      | Long-term systemic effects | 0.35 mg/m <sup>3</sup>    |
|                           | Worker             | dermal          | Long-term systemic effects | 0.48 mg/kg                |
| Orthophosphoric acid      | Industrial use     | Inhalation      | Long-term systemic effects | 10.7 mg/m <sup>3</sup>    |
|                           | Industrial use     | Inhalation      | Long-term local effects    | 1 mg/m <sup>3</sup>       |
|                           | general population | Inhalation      | Long-term systemic effects | 4.57 mg/m <sup>3</sup>    |
|                           | general population | Inhalation      | Long-term local effects    |                           |
|                           | general population | Oral            | Long-term systemic effects | 0.1 mg/kg body-weight/day |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name            | Environmental Compartment      | Value       |
|---------------------------|--------------------------------|-------------|
| cyanamide, carbamonitrile | Freshwater                     | 0.01 mg/l   |
|                           | Marine water                   | 0.001 mg/l  |
|                           | water - intermittent releases  | 0.032 mg/l  |
|                           | Fresh water sediment           | 0.04 mg/l   |
|                           | marine water sediment          | 0.004 mg/l  |
|                           | Sewage treatment plant         | 88 mg/l     |
|                           | Soil                           | 0.1515 mg/l |
|                           | oral (secondary poisoning)     | 0.5 mg/kg   |
| Orthophosphoric acid      |                                |             |
| Remarks:                  | not necessary (not classified) |             |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

### Hand protection

Material : Nitrile rubber, Recommendation: Camatril® Velours (732)  
Break through time : > 480 min  
Glove thickness : 0.4 mm  
Glove length : elbow-length rubber gloves

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|                          |   |  |
|--------------------------|---|--|
| Directive                | : | DIN EN 374   |
| Manufacturer             | : | Kächele-Cama Latex GmbH (KCL), Germany   |
| Skin and body protection | : | Chemical-resistant protective suit, type 3, EN 14605:2005, e.g. ProChem® I C<br>rubber boots (EN 13832)  |
| Respiratory protection   | : | If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.<br>Respirator with ABEK combination filter<br>Suitable filter: B, code colour grey |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |  |
|--|---|--|
| Physical state                                   | : | aqueous solution                                     |
| Colour   | : | blue   |
| Odour  | : | odourless  |
| Melting point/range                              | : | -15 °C   |
| Boiling point/boiling range                      | : | not determined                                       |
| Upper explosion limit / upper flammability limit | : | no data available                                    |
| Lower explosion limit / Lower flammability limit | : | no data available                                    |
| Flash point                                      | : | Not applicable                                       |
| Auto-ignition temperature                        | : | no data available                                    |
| pH   | : | 3.9 - 4.9 (20 °C)<br>Concentration: 50 %             |
| Viscosity  | : |  |
| Viscosity, kinematic                             | : | 0.931 mm <sup>2</sup> /s (20 °C)<br>Method: OECD 114 |
| Solubility(ies)                                  | : |  |
| Water solubility                                 | : | completely miscible (20 °C)                          |
| Partition coefficient: n-octanol/water           | : | log Pow: -0.72                                       |
| Vapour pressure                                  | : | 0.005 hPa (20 °C)                                    |



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cyanamide

Relative density : no data available

Density : ca. 1.06 g/cm<sup>3</sup> (20 °C)

Bulk density : no data available

Relative vapour density : no data available

### 9.2 Other information

Explosives : no data available

Oxidizing properties : no data available

Self-heating substances : no data available

Metal corrosion rate : 0.11 mm/a  
Not corrosive to steel.

0.06 mm/a  
Not corrosive to aluminium.

Impact sensitivity : no data available

Conductivity : ca. 12 mS/cm at 10 °C

Surface tension : no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

Product is supplied in stabilised form.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent, exothermic reaction.

### 10.4 Conditions to avoid

Conditions to avoid : temperatures > 35 °C  
Keep away from direct sunlight.  
Do not concentrate the product by evaporation. May cause violent decomposition.

### 10.5 Incompatible materials

Materials to avoid : Acids and bases  
combustible substances

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### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.  
see section 5

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

- Acute oral toxicity : Assessment: Toxic if swallowed.
- Acute inhalation toxicity : Assessment: Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Assessment: Harmful in contact with skin.

##### Components:

##### **cyanamide, carbamionitrile:**

- Acute oral toxicity : LD50 (Rat, male/female): related to 100% active substance 142 mg/kg  
Assessment: Toxic if swallowed.  
Remarks: IUCLID
- Acute inhalation toxicity : LC50 (rat): > 2 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403  
Test substance: 50 % cyanamide (as aqueous solution)  
Assessment: Based on available data, the classification criteria are not met.  
Remarks: maximum concentration in the test: no animals died.  
IUCLID
- Acute dermal toxicity : LD50 (Rabbit): related to 100% active substance 848 mg/kg  
Assessment: Toxic in contact with skin.  
Remarks: IUCLID

##### **Orthophosphoric acid:**

- Acute oral toxicity : 300 - 2000 mg/kg  
Assessment: Harmful if swallowed.  
Remarks: Literature, IUCLID
- Acute inhalation toxicity : LC50 (rat): 850 mg/l  
Exposure time: 2 h  
Assessment: Based on available data, the classification criteria are not met.  
Remarks: Literature, IUCLID

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Acute dermal toxicity : LD50 (Rabbit): 2740 mg/kg  
Assessment: Based on available data, the classification criteria are not met.  
Remarks: Literature, IUCLID

### Skin corrosion/irritation

#### Product:

Species : Human Skin Model  
Exposure time : 0.05 - 1 h  
Method : OECD Test Guideline 431  
Result : Causes burns.  
Remarks : IUCLID

#### Components:

##### **cyanamide, carbamionitrile:**

Species : Rabbit  
Method : OECD Guide-line 404  
Result : Causes burns.  
Remarks : IUCLID

##### **Orthophosphoric acid:**

Species : Rabbit  
Assessment : Causes severe skin burns and eye damage.  
Remarks : Literature, IUCLID

### Serious eye damage/eye irritation

#### Product:

Assessment : Causes serious eye damage.

#### Components:

##### **cyanamide, carbamionitrile:**

Assessment : Risk of serious damage to eyes.  
Remarks : Due to the result "corrosive" of the acute dermal irritation study, no acute eye irritation study was performed.

##### **Orthophosphoric acid:**

Assessment : Causes serious eye damage.  
Remarks : Literature, IUCLID

### Respiratory or skin sensitisation

#### Product:

Assessment : May cause an allergic skin reaction.

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### Components:

#### **cyanamide, carbamionitrile:**

Test Type : maximization test  
Species : guinea pig  
Result : Sensitising  
Remarks : IUCLID

#### **Orthophosphoric acid:**

Assessment : Based on available data, the classification criteria are not met.  
Remarks : (literature)

### **Germ cell mutagenicity**

#### Components:

#### **cyanamide, carbamionitrile:**

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects  
Remarks: IUCLID

#### **Orthophosphoric acid:**

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### Product:

Carcinogenicity - Assessment : Suspected of causing cancer.

#### Components:

#### **cyanamide, carbamionitrile:**

Carcinogenicity - Assessment : Suspected of causing cancer.  
Remarks: IUCLID

#### **Orthophosphoric acid:**

Carcinogenicity - Assessment : No evidence that cancer may be caused.

### **Reproductive toxicity**

#### Product:

Reproductive toxicity - Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.

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### Components:

#### **cyanamide, carbamionitrile:**

Reproductive toxicity - Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.  
Remarks: IUCLID

#### **Orthophosphoric acid:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing did not show any effects on foetal development.

### **STOT - single exposure**

#### Components:

#### **cyanamide, carbamionitrile:**

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

#### **Orthophosphoric acid:**

Assessment : Based on available data, the classification criteria are not met.  
Remarks : Literature, IUCLID

### **STOT - repeated exposure**

#### Product:

Assessment : May cause damage to organs through prolonged or repeated exposure.

#### Components:

#### **cyanamide, carbamionitrile:**

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **Orthophosphoric acid:**

Assessment : Based on available data, the classification criteria are not met.  
Remarks : Literature, IUCLID

### **Aspiration toxicity**

#### Components:

#### **Orthophosphoric acid:**

no data available

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### 11.2 Information on other hazards

#### Experience with human exposure

##### Product:

General Information : Alcohol consumption increases the effect of the poison.

##### Components:

##### cyanamide, carbamionitrile:

General Information : Interactions with alcohol (ethanol).  
Use of alcoholic beverages enhances the toxic effects.

## SECTION 12: Ecological information

### 12.1 Toxicity

##### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 180 mg/l  
Exposure time: 96 h  
Method: OECD 204  
Remarks: IUCLID

NOEC (Oncorhynchus mykiss): 7.4 mg/l  
Exposure time: 21 d  
Method: OECD 204  
Remarks: IUCLID

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 6.5 mg/l  
Exposure time: 48 h  
Method: OECD 202 part 1  
Remarks: IUCLID

Toxicity to algae/aquatic plants : ErC50 (selenastrum capricornutum): 27.5 mg/l  
End point: growth rate  
Exposure time: 90 h  
Method: OECD 201  
Remarks: IUCLID

Toxicity to microorganisms : EC 10 (Pseudomonas putida): 314 mg/l  
Remarks: IUCLID

Toxicity to terrestrial organisms : LD50: ca. 100 µg/insect  
Species: honeybees  
Test substance: Product similar composition

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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### Components:

#### **cyanamide, carbamionitrile:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss): related to 100% active substance 90 mg/l  
Exposure time: 96 h  
Remarks: IUCLID
- NOEC (Oncorhynchus mykiss): related to 100% active substance 3.7 mg/l  
Exposure time: 21 d  
Remarks: IUCLID
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): related to 100% active substance 3.2 mg/l  
Exposure time: 48 h  
Remarks: IUCLID
- NOEC (Daphnia magna): related to 100% active substance 0.1044 mg/l  
Exposure time: 21 d  
Remarks: IUCLID
- Toxicity to algae/aquatic plants : ErC50 (selenastrum capricornutum): related to 100% active substance 13.5 mg/l  
End point: growth rate  
Exposure time: 90 h  
Remarks: IUCLID
- Toxicity to microorganisms : EC 10 (Pseudomonas putida): related to 100% active substance 157 mg/l  
Remarks: IUCLID
- Toxicity to terrestrial organisms : LD50: ca. 100 µg/insect  
Species: honeybees  
Test substance: 50 % solution

#### **Ecotoxicology Assessment**

- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### **Orthophosphoric acid:**

- Toxicity to fish : LC50 (Lepomis macrochirus): 3 - 3.25 mg/l  
Exposure time: 96 h  
Remarks: Literature, IUCLID
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Literature, IUCLID
- Toxicity to algae/aquatic : (Desmodesmus subspicatus): 100 mg/l

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## DORMEX®

Version 8.5 / REG\_EU  
Revision Date: 08.07.2021

Specification: 132506  
Material no.:

Date of first issue: 08.07.2021  
Print Date: 19.11.2021

plants  
Exposure time: 72 h  
Test Type: static test  
Remarks: Literature, IUCLID

Toxicity to microorganisms : EC50 : > 1000 mg/l  
Exposure time: 3 h  
Remarks: Literature, IUCLID

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Readily biodegradable under environmental conditions.

#### Components:

##### **cyanamide, carbamonitrile:**

Biodegradability : Inoculum: activated sludge  
Biodegradation: > 99 %  
Method: (CO<sub>2</sub>; modif. Sturm test / OECD 301 B)  
Test substance: 50 % solution  
Remarks: Readily biodegradable.

Result: rapidly degradable  
Method: Water-sediment test.  
Test substance: 50 % solution  
Remarks: Biodegradable in the soil (sediment).

##### **Orthophosphoric acid:**

Biodegradability : Remarks: Inorganic product, cannot be eliminated from water by biological cleaning methods, test not feasible

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

#### Components:

##### **cyanamide, carbamonitrile:**

Partition coefficient: n-octanol/water : log Pow: -0.72  
Remarks: (measured)

##### **Orthophosphoric acid:**

Bioaccumulation : Remarks: no data available



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### 12.4 Mobility in soil

**Product:**

Distribution among environmental compartments : Remarks: Mobile in soils

**Components:**

**cyanamide, carbamionitrile:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
Koc: < 6.81

Remarks: Mobile in soils  
IUCLID

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 Other adverse effects

**Product:**

Additional ecological information : Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

**Components:**

**cyanamide, carbamionitrile:**

Additional ecological information : Under acid conditions (pH < 4) the product hydrolyses to urea, which is easily biodegradable.

**Orthophosphoric acid:**

Additional ecological information : The product may be harmful to aquatic organisms by pH-shift.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that can not be reused after cleaning must be

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disposed or recycled in accordance with all federal, national and local regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR** : UN 2922  
**RID** : UN 2922  
**IMDG** : UN 2922  
**IATA** : UN 2922

#### 14.2 UN proper shipping name

**ADR** : CORROSIVE LIQUID, TOXIC, N.O.S.  
(cont. Cyanamide)  
**RID** : CORROSIVE LIQUID, TOXIC, N.O.S.  
(cont. Cyanamide)  
**IMDG** : CORROSIVE LIQUID, TOXIC, N.O.S.  
(cont. Cyanamide)  
**IATA** : Corrosive liquid, toxic, n.o.s.  
(cont. Cyanamide)

#### 14.3 Transport hazard class(es)

**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

#### 14.4 Packing group

Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

**ADR**  
Packing group : II  
Classification Code : CT1  
Hazard Identification Number : 86  
Labels : 8 (6.1)  
Tunnel restriction code : (E)

**RID**  
Packing group : II  
Classification Code : CT1  
Hazard Identification Number : 86  
Labels : 8 (6.1)

**IMDG**  
Packing group : II  
Labels : 8 (6.1)

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EmS Code : F-A, S-B  
Remarks : Clear of living quarters.  
Keep separate from foodstuffs, luxury foods, feedstuffs

### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive, Toxic  
Remarks : ERG-Code 8P  
Keep separate from foodstuffs, luxury foods, feedstuffs

### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive, Toxic  
Remarks : ERG-Code 8P

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

### 15.2 Chemical safety assessment

No substance safety assessment is required for this product because use of the substance is already regulated within the framework of specific legal regulations.

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### SECTION 16: Other information

#### Full text of H-Statements

|        |   |  |
|--------|---|--|
| H290   | : | May be corrosive to metals.  |
| H301   | : | Toxic if swallowed.  |
| H302   | : | Harmful if swallowed.  |
| H311   | : | Toxic in contact with skin.  |
| H314   | : | Causes severe skin burns and eye damage.                                 |
| H317   | : | May cause an allergic skin reaction.                                     |
| H318   | : | Causes serious eye damage.   |
| H351   | : | Suspected of causing cancer.   |
| H361fd | : | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373   | : | May cause damage to organs through prolonged or repeated exposure.       |
| H412   | : | Harmful to aquatic life with long lasting effects.                       |

#### Full text of other abbreviations

|                   |   |  |
|-------------------|---|--|
| Acute Tox.        | : | Acute toxicity   |
| Aquatic Chronic   | : | Long-term (chronic) aquatic hazard   |
| Carc.             | : | Carcinogenicity  |
| Eye Dam.          | : | Serious eye damage   |
| Met. Corr.        | : | Corrosive to metals  |
| Repr.             | : | Reproductive toxicity  |
| Skin Corr.        | : | Skin corrosion   |
| Skin Sens.        | : | Skin sensitisation   |
| STOT RE           | : | Specific target organ toxicity - repeated exposure   |
| 2000/39/EC        | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2006/15/EC        | : | Europe. Indicative occupational exposure limit values  |
| 2000/39/EC / TWA  | : | Limit Value - eight hours  |
| 2000/39/EC / STEL | : | Short term exposure limit  |
| 2006/15/EC / TWA  | : | Limit Value - eight hours  |

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; AIIIC - 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

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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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