

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ALZOGUR®

Version 9.4 / REG_EU
Revision Date: 18.02.2021

Specification: 132400
Material no.:

Date of first issue: 18.02.2021
Print Date: 10.03.2021

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

1.1 Product identifier

Trade name : ALZOGUR®
Registration number : if available listed in Chapter. 3
Unique Formula Identifier (UFI) : 7V30-X0VF-P00V-KAXE

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

Use of the Sub-stance/Mixture : Biocide

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.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
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.
Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-

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fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
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.

Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage:
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.

Animals (e.g. dogs, pigs) love licking the residuals of the ready-made solution (water + ALZOGUR) from poorly cleaned cot-floors (rifty floors).

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

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Use of alcoholic beverages enhances the toxic effects.
Dermal absorption possible

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : aqueous solution with cyanamide

Components

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

If inhaled : Move to fresh air.

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- 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, foam, CO₂, dry powder.
- Unsuitable extinguishing : High volume water jet

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media

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
Sweep up and shovel.
Avoid dust formation.
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.
Clean contaminated floors and objects thoroughly while observing environmental regulations.
Rinse away any residue with plenty of water.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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- 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
cyanamide; carbamionitrile	420-04-2	TWA	0,58 ppm 1 mg/m ³	2006/15/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
Orthophosphoric acid	7664-38-2	TWA	1 mg/m ³	2000/39/EC

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	Further information: Indicative		
	STEL	2 mg/m ³	2000/39/EC
	Further information: Indicative		

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166
- 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
 - 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 rubber boots (EN 13832)
- Respiratory protection : Respirator with B-P3 combination filter
Equipment should conform to EN 14387

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
- Flash point : Not applicable
- pH : 3,9 - 4,9 (20 °C)
Concentration: 500 g/l 50 %
Main component
- Solubility(ies)
- Water solubility : completely miscible (20 °C)
- Partition coefficient: n-octanol/water : log Pow: -0,72
- Vapour pressure : 0,005 hPa (20 °C)
cyanamide
- Density : 1,06 g/cm³ (20 °C)

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9.2 Other information

Metal corrosion rate : 0,11 mm/a
Not corrosive to steel.

0,06 mm/a
Not corrosive to aluminium.

Conductivity : ca. 12 mS/cm at 10 °C

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 with acids, bases and temperatures above 40°C.

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

10.6 Hazardous decomposition products

Ammonia
decomposition products In the case of fire
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.

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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
- 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.

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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; carbamonitrile:

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.

Components:

cyanamide; carbamonitrile:

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; carbamonitrile:

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

Orthophosphoric acid:

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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.

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

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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

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

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- 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.

Components:

cyanamide; carbamonitrile:

- 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

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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 plants : (Desmodesmus subspicatus): 100 mg/l
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; carbamionitrile:

Biodegradability : Inoculum: activated sludge
Biodegradation: > 99 %
Method: (CO₂; 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

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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

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Mobile in soils

Components:

cyanamide; carbamonitrile:

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; carbamonitrile:

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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.

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 : Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

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

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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)
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.

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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

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)
Volatile organic compounds (VOC) content: 0 %

Other regulations:

Restricted to professional users.

According to EU Regulation 528/2012/EEC and country-specific requirements.

The employment limitations under the protection of young persons act, the laws on pregnant women and young mothers and work at home is/are to be observed.

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.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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; 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; 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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