

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

1.1. Product identifier: 3IN1 TRAY UFI: KSAW-9N9S-TSKF-XC7U
1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture 3D Printing, resin
1.3. Details of the supplier of the safety data sheet
Company name: NYTE3D GmbH Street: Hans-Heinrich-Warnke-Str. 12 Place: D-29227 Celle Telephone: +49 (0)5141 97445-50 E-Mail: info@nyte3d.de Contact person: Manuel Schlenkrich Telephone: +49 (0)5141 97445-50 Internet: www.nyte3d.de
1.4. Emergency telephone number: +49 (0)5141 97445-50 Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008
– Acute Tox. 4; H302
– Eye Dam. 1; H318
– Skin Sens. 1; H317
– STOT RE 2; H373
– Aquatic Chronic 3; H412
Full text of hazard statements: see SECTION 16.
2.2. Label elements Regulation (EC) No 1272/2008
Hazard components for labelling
– 4-(1-oxo-2-propenyl)-morpholine
– reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
– Glycerol, propoxylated, esters with acrylic acid
– Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Signal word: Danger
Pictograms:



Hazard statements
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves and eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.2. Mixtures Relevant ingredients
CAS No: 5117-12-4 Chemical name: 4-(1-oxo-2-propenyl)-morpholine Quantity: 40 – < 45 % EC No: 418-140-1 Index No: 613-222-00-3 REACH No: 01-2120102080-83 Classification (Regulation (EC) No 1272/2008): Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 2; H302 H318 H317 H373
CAS No: 52658-19-2 Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate Quantity: 15 – < 25 % EC No: 412-260-6 Index No: 616-087-00-9 REACH No: 01-2119381661-37 Classification (Regulation (EC) No 1272/2008): Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H317 H411
CAS No: 52408-84-1 Chemical name: Glycerol, propoxylated, esters with acrylic acid Quantity: 30 – < 40 % EC No: 500-114-5 REACH No: 01-2119487948-12 Classification (Regulation (EC) No 1272/2008): Eye Irrit. 2, Skin Sens. 1; H319 H317
CAS No: 84434-11-7 Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate Quantity: 1 – < 5 % EC No: 282-810-6 REACH No: 01-2119987994-10 Classification (Regulation (EC) No 1272/2008): Skin Sens. 1B, Aquatic Chronic 2; H317 H411
Full text of H and EUH statements: see section 16.
Specific Conc. Limits, M-factors and ATE
CAS No: 5117-12-4 EC No: 418-140-1 Chemical name: 4-(1-oxo-2-propenyl)-morpholine Quantity: 40 – < 45 % Specific Conc. Limits, M-factors and ATE: dermal: LD50 = > 2000 mg/kg; oral: LD50 = 588 mg/kg
CAS No: 52658-19-2 EC No: 412-260-6 Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahecadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate Quantity: 20 – < 25 % Specific Conc. Limits, M-factors and ATE: dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg
CAS No: 52408-84-1 EC No: 500-114-5 Chemical name: Glycerol, propoxylated, esters with acrylic acid Quantity: 30 – < 40 % Specific Conc. Limits, M-factors and ATE: dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg
CAS No: 84434-11-7 EC No: 282-810-6 Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate Quantity: 1 – < 5 % Specific Conc. Limits, M-factors and ATE: dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures
General information When in doubt or if symptoms are observed, get medical advice.
After inhalation Provide fresh air. If experiencing respiratory symptoms: Call a doctor.
After contact with skin After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
After contact with eyes After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Rinse mouth immediately and drink 1 glass of water. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed No information available.
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 Co-ordinate fire-fighting measures to the fire surroundings.
5.2. Special hazards arising from the substance or mixture Non-flammable. In case of fire may be liberated: Pyrolysis products, toxic
5.3. Advice for firefighters Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information Use water spray jet to protect personnel and to cool endangered containers. 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
General advice Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.
For non-emergency personnel Provide adequate ventilation. Use personal protection equipment.
For emergency responders Wear personal protection equipment (refer to 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 Stop leak if safe to do so. Cover drains.
For cleaning up Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
Other information Clean contaminated articles and floor according to the environmental legislation.
6.4. Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling Provide adequate ventilation. Do not breathe gas/fumes/ vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
Advice on protection against fire and explosion Usual measures for fire prevention.
Advice on general occupational hygiene Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.
7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.
Hints on joint storage No information available.
Further information on storage conditions Protect against: UV-radiation/sunlight, Heat.
7.3. Specific end use(s) 3D Printing, resin

SECTION 8: Exposure controls/ personal protection

8.1. Control parameters
Occupational exposure limits
CAS No: 128-37-0 Substance: 2,6-Ditertiary-butyl-para-cresol ppm: - mg/m³: 2 Category: TWA (8h)

DNEL/DMEL values
CAS No: 5117-12-4 Substance: 4-(1-oxo-2-propenyl)-morpholine DNEL type: Worker DNEL, long-term Exposure route: inhalation Effect: systemic Value: 132,24 mg/m³ DNEL type: Worker DNEL, long-term Exposure route: dermal Effect: systemic Value: 300 mg/kg bw/day

PNEC values
CAS No: 5117-12-4 Substance: 4-(1-oxo-2-propenyl)-morpholine Environmental compartment: Freshwater Value: 0,012 mg/l Environmental compartment: Freshwater sediment Value: 0,009 mg/kg Environmental compartment: Soil Value: 0,001 mg/kg

CAS No: 52658-19-2 Substance: reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahecadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate Environmental compartment: Freshwater Value: 0,0049 mg/l Environmental compartment: Marine water Value: 0,0049 mg/l Environmental compartment: Freshwater sediment Value: 0,851 mg/kg Environmental compartment: Marine sediment Value: 0,0851 mg/kg Environmental compartment: Micro-organisms in sewage treatment plants (STP) Value: 1 mg/l Environmental compartment: Soil Value: 0,167 mg/kg

8.2. Exposure controls
 

Appropriate engineering controls Provide adequate ventilation as well as local exhaustion at critical locations.
Individual protection measures, such as personal protective equipment

Eye/face protection Use eye protection according to EN 166.

Hand protection Wear suitable gloves tested to EN374. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
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Skin protection Wear suitable protective clothing.
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Respiratory protection In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: exceeding exposure limit values
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Thermal hazards No information available.

Environmental exposure controls Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: liquid Colour: greenish blue Odour: characteristic Odour threshold: not determined Melting point/freezing point: not determined Boiling point or initial boiling point and boiling range: not determined Flammability: Non-flammable. Lower explosion limits: not determined Upper explosion limits: not determined Flash point: > 100 °C Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: not applicable Viscosity / kinematic: not determined Water solubility: practically insoluble Solubility in other solvents: not determined Partition coefficient n-octanol/water: not determined Vapour pressure: not determined

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Density: not determined
Relative vapour density: not determined
Particle characteristics: not applicable

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
UV-radiation/sunlight, Heat.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
In case of fire may be liberated: Pyrolysis products, toxic

SECTION 11: Toxicological information

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

Acute toxicity
Harmful if swallowed.

ATEmix calculated
ATE (oral) 1435,2 mg/kg;
ATE (dermal) > 2000 mg/kg;
ATE (inhalation vapour) > 20 mg/li;
ATE (inhalation dust/mist) > 5 mg/l

CAS No: 5117-12-4
Chemical name: 4-(1-oxo-2-propenyl)-morpholine
Exposure route: oral
Dose: LD50 588mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 401
Exposure route: dermal
Dose: LD50 > 2000mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 402

CAS No: 52658-19-2
Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
Exposure route: oral
Dose: LD50 > 2000mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 420 Regulation (EC) No. 440/2008, Annex B.3
Exposure route: dermal
Dose: LD50 > 2000mg/kg
Species: Rat
Source: Manufacturer

CAS No: 52408-84-1
Chemical name: Glycerol, propoxylated, esters with acrylic acid
Exposure route: oral
Dose: LD50 > 2000mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 401
Exposure route: dermal
Dose: LD50 > 2000mg/kg
Species: Rabbit
Source: Manufacturer
Method: OECD 402

CAS No: 84434-11-7
Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate
Exposure route: oral
Dose: LD50 > 5000mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 401
Exposure route: dermal
Dose: LD50 > 2000mg/kg
Species: Rat
Source: Manufacturer
Method: OECD 402

Irritation and corrosivity
Serious eye damage/eye irritation:
Causes serious eye damage.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects
May cause an allergic skin reaction.
(4-(1-oxo-2-propenyl)-morpholine; reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexade-cane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; Glycerol, propoxylated, esters with acrylic acid; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)

Carcinogenic/mutagenic/toxic effects for reproduction
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 avaylic data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure. (4-(1-oxo-2-propenyl)-morpholine)

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

Information on likely routes of exposure
oral, Skin contact, Eye contact, Inhalation.

11.2. Information on other hazards

Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity
Harmful to aquatic life with long lasting effects.

CAS No: 5117-12-4
Chemical name: 4-(1-oxo-2-propenyl)-morpholine
Aquatic toxicity: Acute fish toxicity
Dose: LC50 220 mg/l
[h][d]: 96 h
Species: Piscis
Source: Manufacturer
Method: OECD 203
Aquatic toxicity: Acute algae toxicity
Dose: ErC50 120 mg/l
[h][d]: 72 h
Species: Algae
Source: Manufacturer
Method: OECD 201
Aquatic toxicity: Acute crustacea toxicity
Dose: EC50 120 mg/l
[h][d]: 48 h
Species: Daphnia spec.
Source: Manufacturer
Method: OECD 202

CAS No: 52658-19-2
Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
Aquatic toxicity: Acute fish toxicity
Dose: LC50 4,9 mg/l
[h][d]: 96 h
Species: Piscis
Source: Manufacturer
Method: OECD 203
Aquatic toxicity: Acute algae toxicity
Dose: ErC50 5,1 mg/l
[h][d]: 72 h
Species: Algae
Source: Manufacturer
Method: OECD 201

CAS No: 52408-84-1
Chemical name: Glycerol, propoxylated, esters with acrylic acid
Aquatic toxicity: Acute fish toxicity
Dose: LC50 5,74 mg/l
[h][d]: 96 h
Species: Piscis
Source: Manufacturer
Aquatic toxicity: Acute algae toxicity
Dose: ErC50 12,2 mg/l
[h][d]: 72 h
Species: Algae
Source: Manufacturer
Method: OECD 201
Aquatic toxicity: Acute crustacea toxicity
Dose: EC50 91,4 mg/l
[h][d]: 48 h
Species: Daphnia spec.
Source: Manufacturer
Method: OECD 202

CAS No: 84434-11-7
Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate
Aquatic toxicity: Acute fish toxicity
Dose: LC50 1,89 mg/l
[h][d]: 96 h
Species: Danio rerio (zebrafish)
Source: Manufacturer
Method: OECD 203
Aquatic toxicity: Acute algae toxicity
Dose: ErC50 1,01 mg/l
[h][d]: 72 h
Species: Algae
Source: Manufacturer
Method: OECD 201
Aquatic toxicity: Acute crustacea toxicity
Dose: EC50 2,26 mg/l
[h][d]: 48 h
Species: Daphnia magna (Big water flea)
Source: Manufacturer
Method: OECD 202
Aquatic toxicity: Acute bacteriatotoxicity
Dose: EC50 > 1000mg/l()
[h][d]: 3 h
Species: Activated sludge
Source: Manufacturer
Method: OECD 209

12.2. Persistence and degradability
The product has not been tested.

CAS No: 5117-12-4
Chemical name: 4-(1-oxo-2-propenyl)-morpholine
Method: OECD 301D
Value: 35 %
d: 28
Source: Manufacturer
Evaluation: Not readily biodegradable (according to OECD criteria)

CAS No: 52658-19-2
Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
Method: OECD 301B
Value: 7 %
d: 28
Source: Manufacturer
Evaluation: Not readily biodegradable (according to OECD criteria)

CAS No: 52408-84-1
Chemical name: Glycerol, propoxylated, esters with acrylic acid
Method: OECD 301B
Value: 79 %
d: 28
Source: Manufacturer
Evaluation: Readily biodegradable (according to OECD criteria).

CAS No: 84434-11-7
Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate
Method: OECD 301F
Value: < 10 %
d: 28
Source: Manufacturer
Evaluation: Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential
The product has not been tested.

Partition coefficient n-octanol/water

CAS No: 5117-12-4
Chemical name: 4-(1-oxo-2-propenyl)-morpholine
Log Pow: -0,46

CAS No: 52658-19-2
Chemical name: reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
Log Pow: 2,2

CAS No: 52408-84-1
Chemical name: Glycerol, propoxylated, esters with acrylic acid
Log Pow: 2,52

CAS No: 84434-11-7
Chemical name: Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate
Log Pow: 2,91

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects
No information available.

Day of creation June 7, 2024	 NYTE3D GmbH
Revised on –	Hans-Heinrich-Warnke-Str. 12 29227 Celle, Germany
Revision no. 1,0 Revised version: –	+49 5141 97445-50 info@nyte3d.de www.nyte3d.de

Further information
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number
No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name
No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)
No dangerous good in sense of this transport regulation.

14.4. Packing group
No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number
No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name
No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)
No dangerous good in sense of this transport regulation.

14.4. Packing group
No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number
No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name
No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)
No dangerous good in sense of this transport regulation.

14.4. Packing group
No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number
No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name
No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)
No dangerous good in sense of this transport regulation.

14.4. Packing group
No dangerous good in sense of this transport regulation.

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user
No information available.

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII)
Entry 3, Entry 75

Information according to Directive 2012/18/EU (SEVESO III)
Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions
Observe restrictions to employment for juveniles according to the ‘juvenile work protection guideline’ (94/33/EC).

Water hazard class (D)
2 – obviously hazardous to water

Additional information
Observe in addition any national regulations!

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No 1907/2006

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox	Acute toxicity
Skin Irrit	Skin irritation
Eye Dam	Eye damage
Eye Irrit	Eye irritation
Skin Sens	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Chronic aquatic hazard
CLP	Classification, Labelling and Packaging
REACH	Registration, Evaluation and Authorization of Chemicals
GHS	Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN	United Nations
EC/EEC	European Community/ European Economic Community
EU	European Union
CAS	Chemical Abstracts Service
M-Factor	Multiplication Factor
DNEL	Derived No Effect Level
DMEL	Derived Minimal Effect Level

PNEC	Predicted No Effect Concentration
ATE	Acute Toxicity Estimate
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
LL50	Lethal Loading, 50%
EL50	Effect Loading, 50%
EC50	Effective Concentration 50%
ErC50	Effective Concentration 50%, growth rate
NOEC	No Observed Effect Concentration
BCF	Bio-Concentration Factor
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	Regulations concerning the International carriage of Dangerous goods by rail
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures)
IMDG	International Maritime Code for Dangerous Goods
Ems	Emergency Schedules

MFAG	Medical First Aid Guide
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
TI	Technical Instructions
DGR	Dangerous Goods Regulations
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
IBC	Intermediate Bulk Container
VOC	Volatile Organic Compounds
IE	Industrial Emissions
SVHC	Substance of Very High Concern

Key literature references and sources for data

For abbreviations and acronyms, see:
ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

- Classification: Classification procedure
- Acute Tox. 4; H302: Calculation method
- Eye Dam. 1; H318: Calculation method
- Skin Sens. 1; H317: Calculation method
- STOT RE 2; H373: Calculation method
- Aquatic Chronic 3; H412: Calculation method

Relevant H and EUH statements (number and full text)

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)