

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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DD Incisal X - X2

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

1.1. Product identifier

Trade name/designation:

DD Incisal X - X2

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

Use of the substance/mixture:

DD Incisal X - X2 is a liquid for shading and individualising up to four adjacent units in the anterior region for bridges with up to 14 units as well as single-tooth restorations, fabricated from pre-shaded, pre-sintered DD Bio ZX² colour or DD cube ONE® ML zirconia milling blanks, for the fabrication of dental restorations.

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

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

Dental Direkt GmbH

Industriezentrum 106 - 108

32139 Spenge

Germany

Telephone: +49 5225 86319 0

Telefax: +49 5225 86319 99

E-mail: sds@dentaldirekt.de

E-mail (competent person): sds@dentaldirekt.de

1.4. Emergency telephone number

+49 5225 86319 0 (Only available during office hours.)

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Oxidising liquids (<i>Ox. Liq. 2</i>)	H272: May intensify fire; oxidiser.	Calculation method.
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS03

Flame over circle



GHS05

Corrosion

Signal word: Danger

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Hazard components for labelling:

Ytterbiumtrinitrat pentahydrat; hydrogen chloride; Neodymium(III) nitrate, hexahydrate (1:3:6); erbium trichloride

Hazard statements for physical hazards

H272 May intensify fire; oxidiser.

Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P260 Do not breathe vapours and spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing and eye/face protection.

Precautionary statements Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P310 Immediately call a POISON CENTER/doctor/.

* 2.3. Other hazards

Other adverse effects:

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

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 35725-34-9 EC No.: 629-677-6	Ytterbiumtrinitrat pentahydrat Eye Dam. 1 (H318), Ox. Sol. 3 (H272) Danger	45 - < 50 weight-%
CAS No.: 16454-60-7 EC No.: 677-724-4	Neodymium(III) nitrate, hexahydrate (1:3:6) Eye Irrit. 2 (H319), Ox. Sol. 3 (H272), STOT SE 3 (H335), Skin Irrit. 2 (H315) Warning	1 - < 5 weight-%
CAS No.: 10138-41-7 EC No.: 233-385-0	erbium trichloride Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) Warning	1 - < 5 weight-%
CAS No.: 7647-01-0 EC No.: 231-595-7 Index No.: 017-002-01-X CLP Reference No: 02-2119484862-27-0000	hydrogen chloride STOT SE 3 (H335), Skin Corr. 1B (H314) Danger Specific concentration limit (SCL) Skin Corr. 1B; H314: C ≥ 25% Skin Irrit. 2; H315: 10% ≤ C < 25% Eye Dam. 1; H318: C ≥ 25% Eye Irrit. 2; H319: 10% ≤ C < 25% STOT SE 3; H335: C ≥ 10%	0 - < 0.4 weight-%

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately.

Following inhalation:

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water
Wash contaminated clothing before reuse.

After eye contact:

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Rinse mouth thoroughly with water. Let 1 glass of water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

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

Causes severe skin burns and eye damage.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

May intensify fire; oxidiser.
Do not inhale explosion and combustion gases.

Hazardous combustion products:

Nitrogen oxides (NO_x), Hydrogen chloride (HCl), Carbon dioxide (CO₂), Carbon monoxide

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. The product itself does not burn. Dispose of waste according to applicable legislation. Soak up inert absorbent and dispose as waste requiring special attention.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes.
Use personal protection equipment.

Protective equipment:

Personal protection equipment: see section 8

Emergency procedures:

Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

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

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Large amounts of spillages: Suitable material for taking up: Sand ,Kieselguhr ,Universal binder ,Chemical binding agents, containing acids
Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece).

For cleaning up:

Wash with plenty of water.
Unsuitable material for diluting or neutralising: Solvent

6.4. Reference to other sections

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

6.5. Additional information

Clear spills immediately.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

SECTION 8: Exposure controls/personal protection
Wear personal protection equipment (refer to section 8).
Keep container tightly closed.
Avoid contact with skin, eyes and clothes.
Avoid release to the environment. Avoid: aerosol or mist formation

Fire prevent measures:

May intensify fire; oxidiser. Keep away from clothing and other combustible materials.

Measures to prevent aerosol and dust generation:

Provide adequate ventilation.

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.
Used working clothes should not be worn outside the work area. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.
When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep only in the original container in a cool, well-ventilated place. Keep locked up and out of reach of children. Only allow access to authorised staff.
storage temperature: $\leq 25\text{ }^{\circ}\text{C} / 77\text{ }^{\circ}\text{F}$

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Provide for retaining containers, e.g. floor pan without outflow.

Hints on storage assembly:

Do not store together with: Acid, alkali, Oxidizing agent, sulfur, Food and feedingstuffs
Keep away from clothing and other combustible materials.

Storage class (TRGS 510, Germany): 5.1B - Oxidising substances

Further information on storage conditions:

Keep away from: Heat

7.3. Specific end use(s)

Recommendation:

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	① 2 ppm (3 mg/m ³) ② 4 ppm (6 mg/m ³) ⑤ (Chlorwasserstoff) DFG, EU, Y
IOELV (EU)	hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	① 5 ppm (8 mg/m ³) ② 10 ppm (15 mg/m ³) ⑤ (Hydrogen chloride)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	8 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	15 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	36 µg/L	① PNEC aquatic, freshwater
hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	36 µg/L	① PNEC aquatic, marine water

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Substance name	PNEC Value	① PNEC type
hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7	36 µg/L	① PNEC sewage treatment plant

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection, Face protection shield
DIN-/EN-Norms EN 166

Skin protection:

Tested protective gloves must be worn: EN ISO 374
Required properties: liquid-tight
Suitable material: NBR (Nitrile rubber)
Thickness of the glove material 0,4 mm
Permeation time (maximum wear duration): 480 min
Suitable material: NR (natural rubber, Natural latex)
Thickness of the glove material: 0,5 mm
Permeation time (maximum wear duration): 480 min
Suitable material: NBR (Nitrile rubber)
Thickness of the glove material: 0,4 mm
Permeation time (maximum wear duration): 480 min

Breakthrough times and swelling properties of the material must be taken into consideration. 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.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation

Filter type: E

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV 112-190).

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: green

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	1 - 2	20 °C	
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	not applicable		
Decomposition temperature	not applicable		

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Parameter	Value	at °C	① Method ② Remark
Flash point	<i>not applicable</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not applicable</i>		
Density	1.5 g/cm ³	20 °C	
Relative density	<i>not applicable</i>		
Bulk density	<i>not applicable</i>		
Water solubility	miscible		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>not applicable</i>		
Kinematic viscosity	<i>not applicable</i>		

9.2. Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

May intensify fire; oxidiser.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Acid , Alkali (lye), Oxidizing agent, sulfur

10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

erbium trichloride CAS No.: 10138-41-7 EC No.: 233-385-0

LD₅₀ oral: 4,417 mg/kg (Maus)

hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7

LD₅₀ oral: 900 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (vapour): 8.3 mg/L 0.5 h

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes severe burns.

Serious eye damage/irritation:

Causes serious eye damage.

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Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

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

Neodymium(III) nitrate, hexahydrate (1:3:6) CAS No.: 16454-60-7 EC No.: 677-724-4
--

LC ₅₀ : 2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)

hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7

LC ₅₀ : 282 mg/L 4 d (fish)
--

EC ₅₀ : 56 mg/L 3 d (crustaceans)
--

Assessment/classification:

Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

Additional information:

No information available.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

not applicable

Accumulation / Evaluation:

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Ytterbiumtrinitrat pentahydrat CAS No.: 35725-34-9 EC No.: 629-677-6

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

Neodymium(III) nitrate, hexahydrate (1:3:6) CAS No.: 16454-60-7 EC No.: 677-724-4
--

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

erbium trichloride CAS No.: 10138-41-7 EC No.: 233-385-0

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

hydrogen chloride CAS No.: 7647-01-0 EC No.: 231-595-7

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

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

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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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazardous waste according to Directive 2008/98/EC (waste framework directive).
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

11 01 06 *	acids not otherwise specified
------------	-------------------------------

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Package:

Packing which cannot be properly cleaned must be disposed of.





Other disposal recommendations:

Dispose of waste according to applicable legislation.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3218	UN 3218	UN 3218	UN 3218
14.2. UN proper shipping name			
NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (Ytterbiumtrinitrat pentahydrat, Neodymium(III) nitrate, hexahydrate (1:3:6))	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (Ytterbiumtrinitrat pentahydrat, Neodymium(III) nitrate, hexahydrate (1:3:6))	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (Ytterbiumtrinitrat pentahydrat, Neodymium(III) nitrate, hexahydrate (1:3:6))	NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (Ytterbiumtrinitrat pentahydrat, Neodymium(III) nitrate, hexahydrate (1:3:6))
14.3. Transport hazard class(es)			
 5.1	 5.1	 5.1	 5.1
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 270 511 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2	Special Provisions: 270 511 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: O1	Special Provisions: 270 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 EmS-No.: F-A, S-Q	Special Provisions: A3 A65 Limited quantity (LQ): Y540 Excepted Quantities (EQ): E2

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Hazard identification number (Kemler No.): 50 Classification code: O1 Tunnel restriction code: (E)			

* 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

Additional information:

Aqueous solutions of class 5.1 inorganic solid nitrate substances are considered as not meeting the criteria of class 5.1 if the concentration of the substances in solution at the minimum temperature encountered in transport is not greater than 80% of the saturation limit.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Restricted to professional users.

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P8 Oxidizing liquids, Category 1, 2 or 3, Or oxidizing solids, Category 1, 2 or 3

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Law for the protection of working youth (Protection of Young Persons Act - JArbSchG).

Störfallverordnung (12. BImSchV)

for substances contained in the product:

Hazard categories:

- P8 Oxidizing liquids, Category 1, 2 or 3, Or oxidizing solids, Category 1, 2 or 3

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:

Annex 4: ingredient(s) not named.

Water hazard class

WGK:

3 - highly hazardous to water

Description:

highly hazardous to water

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 510

TRGS 900

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

DGUV Information 212-007- Chemical protective gloves

Berufsgenossenschaftliche Regeln (BGR) DGUV Rule 112-189, 112-190, 112-192, 112-195

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15.2. Chemical Safety Assessment

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

SECTION 16: Other information

* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
14.1.	UN number or ID number
14.2.	UN proper shipping name
14.3.	Transport hazard class(es)
14.4.	Packing group
14.5.	Environmental hazards
14.6.	Special precautions for user
14.7.	Maritime transport in bulk according to IMO instruments
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

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
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water) Federal Environmental Agency, Department IV 2.4: Documentation and Information Center for Water Polluting Substances RIGOLETTO (Catalog of substances hazardous to water)

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Oxidising liquids (<i>Ox. Liq. 2</i>)	H272: May intensify fire; oxidiser.	Calculation method.
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.6. Training advice

No data available

16.7. Additional information

Data sources: The data for the hazardous ingredients were taken respectively from the last version of safety data sheet and supplemented by data from hazardous material databases.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information case of processing, the information on this safety data sheet is not necessarily valid for the new madeup material.

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* Data changed compared with the previous version.