

# Safety data sheet

according to Regulation (EC) No 1907/2006

Trade name: **n.cid**  
Issue/Revision: 12.04.2023

Version: 2.01  
Replaces version: 1.1

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

### 1.1. Product identifier

Trade name: **n.cid**  
UFI: PDV8-11PX-T00P-XJY5

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

Relevant identified uses: Disinfecting agent  
Intended purpose: Solution ready for use for the disinfection (internal and external surfaces) of medical and dental hollow part instruments.  
Uses advised against: None at intended use.  
Note: The product is intended for professional users.

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

Supplier: NSK Europe GmbH  
Elly-Beinhorn-Strasse 8  
65760 Eschborn - Germany  
Telephone: +49 6196 77606-0  
Telefax: +49 6196 77606-29  
E-mail: info@nsk-europe.de

E-mail address for the competent person responsible for the safety data sheet: doku@alpro-medical.de

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0 (ALPRO MEDICAL GMBH)  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only  
Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken  
National Poisons Information Service (UK): +44 344 892 0111  
National Poisons Information Service (NPIS)  
(24 h / 7 d), Medical Professionals Only

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data (Flash point)
Eye Irrit. 2; H319	Calculation method

Full text of hazard classes as well as H-phrases: see under SECTION 16.1.

### 2.2. Label elements

Label elements in accordance with Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



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Signal word:		Warning
Hazard components for labelling:		-
H-phrases:	H226 H319	Flammable liquid and vapour. Causes serious eye irritation.
P-phrases:	P210 P233 P280 P305+P351+P338 P337+P313	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Wear eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII (see SECTION 12.5.)

The substances in the mixture have no endocrine disrupting properties according to Regulation (EC) No 1907/2006, Annex XIV (see SECTION 11 and SECTION 12.6.).

The substances in the mixture are below the declaration limit for substances on the list of substances of very high concern according to Regulation (EC) No 1907/2006, Article 59, paragraph 10.

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical characterisation: Mixture of substances listed below with non-hazardous additions in aqueous solution.

#### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Ethanol	CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH Registration No: 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	≥ 30 - < 50
Propan-2-ol	CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0 REACH Registration No: 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	≥ 5 - < 15
D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane-diamidine (2:1)	CAS No: 18472-51-0 EC No: 242-354-0 REACH Registration No: 01-2119946568-22-XXXX	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i> <i>M-Factor chronic: 1</i>	< 0.2

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N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate	CAS No: 94667-33-1 EC No: 619-057-3 REACH Registration No: 01-2119950327-36-XXXX	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i> <i>M-Factor chronic: 1</i>	< 0.2
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	CAS No: 2372-82-9 EC No: 219-145-8 REACH Registration No: 01-2119980592-29-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i>	< 0.2

Full text of hazard classes and H-phrases: see SECTION 16.1.

Occupational exposure limits: see SECTION 8.1.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:	First aider: Pay attention to self-protection!
Following inhalation:	Move affected person into fresh air and keep still and warm. In case of continued complaints seek medical advice.
Following skin contact:	Wash skin immediately with plenty of water and soap. In case of skin reactions, consult a physician.
Following eye contact:	Flush eyes immediately with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Consult an ophthalmologist.
Following ingestion:	Rinse mouth with water. Let drink plenty of water. Do not induce vomiting. Consult a physician immediately.

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

Causes serious eye irritation.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:	Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media:	Full water jet

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

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Special protective equipment:	Wear self-contained breathing apparatus.
Further information:	Cool endangered containers with water spray jet.

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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Use personal protective equipment. See SECTION 8.2.

Avoid skin and eye contact. Do not breathe vapours. Remove all sources of ignition. Provide adequate ventilation. Special danger of slipping by leaked/spilled product. Evacuate danger area. Observe emergency plans. Consult experts.

#### For emergency responders

Use personal protective equipment. See SECTION 8.2.

### 6.2. Environmental precautions

Do not discharge into drains or surface and ground water.

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

#### Containment

For large spills, dyke spilled material or otherwise contain material to ensure runoff does not reach a waterway. Cover or seal drains.

#### Cleaning up

Wipe up small amounts with absorbent material (e.g. cloth, fleece). Absorb large amounts with liquid-binding material (sand, diatomaceous earth, universal binder, sawdust). Collect in suitable, closed containers for disposal. Clean contaminated surfaces thoroughly.

#### Other information

Inappropriate containment and cleaning methods are not known.

### 6.4. Reference to other sections

Information on safe handling see SECTION 7.1.

Information on personal protective equipment see SECTION 8.2.

Information on disposal see SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Precautions

Avoid contact with skin and eyes. Avoid breathing aerosols and vapours. Keep away from sources of ignition. Provide adequate ventilation. Keep container tightly closed. Fill refill packages only in labelled original bottles.

Do not mix with products containing aldehydes or other cleaning or disinfecting agents.

#### Advice on general occupational hygiene

When using do not eat, drink or smoke. Wash hands before breaks and at end of work. Keep away from medicines, food, feed, cosmetics and stimulants.

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

Requirements for storage rooms and vessels: Keep only in the original container. Keep container tightly closed and kept upright to prevent any leakage.

Advice on common storage: Not necessary

Further information on storage conditions: Do not store above 30°C.

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## 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific end uses are stipulated.

### Industry and sector specific guidance

- [DE] TRGS 525 – Hazardous substances in medical care facilities (Section 7 Activities with disinfectants); Issue: September 2014;  
Source: GMBI 2014 page 1294-1307 of 13.10.2014 [No 63]; 10.07.2015 [No 27];  
Source: www.baua.de
- [DE] DGUV rules 207-206 – Prevention of chemical risks when handling disinfectants in health service, Issue: 2016.12;  
Source: www.dguv.de/publikationen

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Country	Limit values				Legal basis	Remarks
	Long term (8 hours)		Short term (15 minutes)			
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ethanol (CAS No: 64-17-5)						
EU						no limit value specified
UK	1000	1920			EH40	
Propan-2-ol (CAS No: 67-63-0)						
EU						no limit value specified
UK	400	999	500	1250	EH40	
N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS-Nr.: 2372-82-9)						
EU						no limit value specified
UK						no limit value specified

Used abbreviations, symbols, numerals and explanations in column „Remarks“

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#### Biological limit values

Country	Parameter	Limit value	Test material	Sampling time	Legal basis
Propan-2-ol (CAS No: 67-63-0)					
Germany	Acetone	25 mg/l	Whole blood	End of exposition, resp. end of shift	TRGS 903
	Acetone	25 mg/l	Urine	End of exposition, resp. end of shift	TRGS 903

#### Information on monitoring procedures

BS EN 482:2021-04; Title: Workplace exposure - Procedures for the determination of the concentration of chemical agents;  
British version of EN 482:2021

BS EN 689:2018; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;  
British version of EN 689:2018

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BS EN 14042:2003-04-24; Title: Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents; British version of EN 14042:2003)

CEN/TR 17055:2017; Title: Workplace exposure. Measurement of chemical agents complying with the requirements given in EN 482 and either one of EN 838, EN 1076, EN 13205, EN 13890 and EN 13936. Choice of procedures

ISO TR 14294:2011; Title: Workplace atmospheres. Measurement of dermal Exposure. Principles and methods

## 8.2. Exposure controls

### Appropriate engineering controls

#### Technical and organisational protective measures

The eyewash station (or eyewash bottle) must be located near the workplace.

### Personal protective equipment

Eye/face protection: Safety glasses with side protection according to BS EN 166

Skin protection:

Hand protection: Protective gloves according to BS EN ISO 374-1 and BS EN 21420

#### Splash guard:

Protective gloves: type C, permeation-resistant at least 10 minutes

#### Permanent contact (> 480 min):

Protective gloves: type A or B; code letters: A, O, N; G, permeation-resistant at least 30 minutes

Other skin protection: Not necessary when used as intended.

Respiratory protection: Not necessary when used as intended.

Thermal hazards: No special protective measures necessary.

### Environmental exposure controls

Do not discharge into drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance/physical state: clear, colourless liquid

Odour: alcoholic, lemon-like

Odour threshold: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flammability: not applicable

Lower explosive limit: Ethanol: 3 Vol.-%

Propan-2-ol: 2 Vol.-%

Upper explosive limit: Ethanol: 15 Vol.-%

Propan-2-ol: 13 Vol.-%

Flash point: 23 °C

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Auto-ignition temperature:	no data available	
pH (100 g/l H <sub>2</sub> O):	7.5 – 8.5	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	no data available	(... °C)
Density:	0.880 – 0.900 g/cm <sup>3</sup>	(20 °C)
Relative vapour density:	no data available	
Particle characteristics:	not applicable	

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Explosive substances/mixtures and products containing explosives:	The product is not explosive, but the formation of explosive vapour/air mixtures is possible.
Flammable gases:	not applicable
Aerosols:	not applicable
Oxidising gases:	not applicable
Gases under pressure:	not applicable
Flammable liquids:	not applicable
Flammable solids:	not applicable
Self-reactive substances and mixtures:	not applicable
Pyrophoric liquids:	not applicable
Pyrophoric solids:	not applicable
Self-heating substances and mixtures:	not applicable
Substances and mixtures, which emit flammable gases in contact with water:	not applicable
Oxidising liquids:	not applicable
Oxidising solids:	not applicable
Organic peroxides:	not applicable
Substances and mixtures corrosive to metals:	not applicable
Desensitised explosives:	not applicable

### 9.2.2. Other safety characteristics

Electrical conductivity (undiluted):	45 – 55 µS/cm	(20 °C)
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.  
Reacts with aldehydes. Do not mix with other detergents or disinfectants.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air. Reacts with aldehydes.

### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.

### 10.5. Incompatible materials

May attack plastics and rubber. Leads to clouding and stress cracks in acrylic glass.

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product

Acute toxicity - oral:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - inhalation:	Acute Toxicity Estimate ATE <sub>mix</sub> > 20 mg/l => no classification

##### Ingredients

#### N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate (CAS No: 94667-33-1):

Acute toxicity - oral: LD<sub>50</sub>: 1157 mg/kg; species: rat; method: OECD 401

#### N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):

Acute toxicity - oral: LD<sub>50</sub>: 261 mg/kg; species: rat; method: OECD 401

Acute toxicity - dermal: LD<sub>50</sub>: > 600 mg/kg; species: rat; method: OECD 402

#### Skin corrosion/irritation

##### Product

No classification. [calculation method]

#### Serious eye damage/irritation

##### Product

Causes serious eye irritation. [calculation method]

#### Respiratory or skin sensitisation

##### Product

No classification. [calculation method]



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## Germ cell mutagenicity

Product

No data available.

## Carcinogenicity

Product

No data available.

## Reproductive toxicity

Product

No data available.

## STOT-single exposure

Product

No classification. [calculation method]

Ingredients

Propan-2-ol (CAS No: 67-63-0):

May cause drowsiness or dizziness.

## STOT-repeated exposure

Product

No classification. [calculation method]

Ingredients

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):

NOAEL: 9 mg/kg; Application Route: Oral; Exposure period: 90 d; species: rat

NOAEL: 20 mg/kg; Application Route: Food; Exposure period: 90 d; species: dog

NOAEL: 15 mg/kg; Application Route: Skin; Exposure period: 90 d; species: rat

## Aspiration hazard

Product

No data available.

## Information on other hazards

Endocrine disrupting properties:

No substances are contained that have endocrine disrupting properties for humans.

## SECTION 12: Ecological information

### 12.1. Toxicity

No classification. [calculation method]

### 12.2. Persistence and degradability

Biodegradability:

The product is biodegradable according to OECD criteria. The statement has been derived from the properties of the ingredients.

### 12.3. Bioaccumulative potential

No data available.

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## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

## 12.6. Endocrine disrupting properties

No substances are contained that have endocrine disrupting properties for non-target organisms.

## 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

Product residues must be disposed of as hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not dispose of larger quantities via the waste water. Leave product in the original container as possible. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 07 06 04\* other organic solvents, washing liquids and mother liquors

Note

Smaller quantities of n.cid can be disposed of diluted (with 12 times the amount of water) via the waste water.

The mixture (from the rinse solutions of n.clean and n.cid) contained in the collection drawer of the iCare+ can be disposed of diluted (with 4 times the amount of water) via the waste water.

#### Disposal of the packaging

Packaging contaminated with product is considered as hazardous waste and must be disposed of accordingly.

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 10\* packaging containing residues of or contaminated by hazardous substances

Recommendation

Contaminated packaging must be emptied optimally and can be recycled after appropriate cleaning (rinse with water).

From a dilution to 8 % the concentrate is no longer classified as a hazardous substance.

## SECTION 14: Transport information

### 14.0. Transport classification

Dangerous good in sense of the transport regulations in road traffic (ADR), railway traffic (RID), inland waterway traffic (ADN), maritime traffic (IMDG-Code) and air traffic (ICAO-TI/IATA-DGR).

### 14.1. UN number

UN 1987

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## 14.2. UN proper shipping name

### ADR/RID/ADN

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

### IMDG-Code/ICAO-TI/IATA-DGR

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

## 14.3. Transport hazard class(es)

Class: 3

Subsidiary risk(s): -

## 14.4. Packing group

III

## 14.5. Environmental hazards

### ADR/RID/ADN

Environmentally Hazardous: No

### IMDG-Code

Marine Pollutant: No

## 14.6. Special precautions for user

Not necessary.

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## 14.8. Further information

Transport category according to ADR section 1.1.3.6: 3

Maximum total quantity per transport unit  
according to ADR section 1.1.3.6: 1000 L

Limited quantity (Maximum quantity per inner  
packaging) according to ADR/RID/ADN/IMDG-Code: 5 L

Classification code according to ADR/RID/ADN: F1

Hazard identification number according to  
ADR/RID: 30

Tunnel restriction code according to ADR/RID: D/E

Segregation group according to IMDG-Code  
section 5.4.1.5.11.1: -

EmS codes: F-E, S-D

## SECTION 15: Regulatory information

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

#### EU-Regulations

REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer  
not applicable

REGULATION (EC) No 2019/1021 on persistent organic pollutants  
not applicable

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REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals

not applicable

REGULATION (EU) No 648/2004 on detergents

Disinfectant

DIRECTIVE 2012/18/EU (Seveso III Directive) on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

Hazard category	Qualifying quantity (tonnes) (lower-tier establishment)	Qualifying quantity (tonnes) (upper-tier establishment)
P5c FLAMMABLE LIQUIDS	5.000	50.000

DIRECTIVE 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content: < 61 %

REACH – List of substances subject to authorisation (Annex XIV)

not applicable

REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

not applicable

COUNCIL DIRECTIVE 94/33/EC on the protection of young people at work

not applicable

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding

not applicable

## 15.2. Chemical safety assessment

For this mixture no chemical safety assessment has been carried out.

## SECTION 16: Other information

### 16.1. Full text of hazard classes and H-phrases

#### Hazard classes

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Long-term aquatic hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity (repeated exposure)
STOT SE	Specific target organ toxicity (single exposure)

#### H-phrases (Hazard statements)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H336	May cause drowsiness or dizziness.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## 16.2. Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BS	British Standards
CAS	Chemical Abstracts Service
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
[DE]	National German regulations
DGUV	Deutsche Gesetzliche Unfallversicherung (English: German statutory accident insurance)
EC	European Community
EEC	European Economic Community
EN	European Standard
EU	European Union
EWC	European Waste Catalogue
GMBI	Gemeinsames Ministerialblatt (English: Joint Ministerial Gazette)
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LD <sub>50</sub>	Median lethal dose
NOAEL	No observed adverse effect level
N.O.S	Not otherwise specified
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative

## 16.3. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 4.0 (December 2022); <https://echa.europa.eu/documents>
- Regulation (EC) No 1272/2008 (CLP regulation)

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- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); <https://echa.europa.eu/documents>
- European Chemicals Agency (ECHA), Registered substances; <https://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <https://www.dguv.de/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <https://webrigoletto.uba.de/rigoletto>

## 16.4. Methods according to Article 9 of Regulation (EC) No 1272/2008 for the evaluation of information for classification purposes

Calculation method according to the criteria in Annex I 1272/2008.

Flash point according to EN ISO 2719:2002.

pH value measurement.

Material compatibility and corrosiveness in practical tests.

## 16.5. Training advice

Provide adequate information, instructions and training for users.

## 16.6. Indication of changes

A dash in the left hand margin indicates an amendment from the previous version.

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The information given in the safety data sheet only applies to the described product in connection with its intended use. This information is based on the latest state of our knowledge at the time of revision. In particular, it describes our product under the aspect of its hazards and safety measures to be taken. It does not constitute any guarantee of product properties and quality features.

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