

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 6/28/2023 Revision date: 9/12/2023 Version: 2.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)
UFI	: GVK3-P04D-H00S-R7EF
Product code	: NC-0401; NC-0410
Type of product	: Synthesis Reagent
Synonyms	: Dichloroacetic acid in Methylene chloride; DCA in DCM
Product group	: End product

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

1.2.1. Relevant identified uses

Main use category	: Professional use, Laboratory chemical
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Laboratory chemicals Substance manufacture
Function or use category	: Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

emp Biotech GmbH GmbH
Robert-Rössle-Str. 10
DE- 13125 Berlin
Deutschland
T +49 (0)30 94 89 22 01 (Monday-Friday, 9:00 am-5:00 pm) - F +49 (0)30 94 89 32 01
info@empbiotech.com - www.empbiotech.com

1.4. Emergency telephone number

Emergency number	: Giftnotruf Berlin +49 30 30686700 (Beratung in Deutsch), 24 Stunden, 7 Tage/Woche; International: INFOTRAC +1-352-323-3500 (Phone) or in the US 800-535-5053 (toll-free), 24 hours/day, 7 days/week
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2	H315
Eye Dam. 1	H318
Carc. 2	H351
Repr. 1B	H360FD
STOT SE 3	H336
Aquatic Acute 1	H400
Full text of hazard classes, H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H360FD - May damage fertility. May damage the unborn child.
H400 - Very toxic to aquatic life.
P202 - Do not handle until all safety precautions have been read and understood.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Precautionary statements (CLP)

2.3. Other hazards

Other hazards which do not result in classification : This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component

Dichloroacetic acid (79-43-6)	
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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component

Dichloromethane(75-09-2)	
Dichloroacetic acid(79-43-6)	

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dichloromethane	CAS-No.: 75-09-2 EC-No.: 200-838-9 EC Index-No.: 602-004-00-3 REACH-no: 01-2119480404-41	93 – 98	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336
Dichloroacetic acid	CAS-No.: 79-43-6 EC-No.: 201-207-0 EC Index-No.: 607-066-00-5 REACH-no: 01-2120767065-52-0000	2 – 7	Met. Corr. 1, H290 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360FD Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Consult a doctor. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation	: Move person to fresh air and ensure comfortable breathing. Give oxygen or artificial respiration if necessary. Ask for medical advice.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. Ask for medical advice.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes. Immediately call a POISON CENTER/doctor. Remove contact lenses, if possible. Continue rinsing.
First-aid measures after ingestion	: Drink water immediately (max. 2 cups). Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Do not give an unconscious person anything to drink.

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

Symptoms/effects	: The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non- combustible.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Carbon oxides. Hydrogen chloride gas.

5.3. Advice for firefighters

Firefighting instructions	: Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
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Protection during firefighting : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : For personal protection see section 8.
Emergency procedures : Do not breathe vapours, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Evacuate area.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4. Reference to other sections

Information on exposure controls/personal protective equipment and on Instructions for disposal can be found in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use under laboratory hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. For precautions see section 2.2.
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Apply preventive skin protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage temperature : 5 – 25 °C
Storage area : Storage class (TRGS 510): See section 15.1.2.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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Dichloroacetic acid (79-43-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1.1 mg/m ³ vapour and aerosol
AGW (OEL TWA) [2]	0.2 ppm vapour and aerosol
Dichloromethane (75-09-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methylene chloride; Dichloromethane
IOEL TWA	353 mg/m ³
IOEL TWA [ppm]	100 ppm
IOEL STEL	706 mg/m ³
IOEL STEL [ppm]	200 ppm - Remark: Skin
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Dichlormethan
AGW (OEL TWA) [1]	180 mg/m ³
AGW (OEL TWA) [2]	50 ppm
Remark	DFG,H,Z
Germany - Biological limit values (TRGS 903)	
Local name	Dichlormethan
Biological limit value	500 µg/l Blood Remarks: End of shift

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	706 mg/m ³
Long-term - systemic effects, dermal	4750 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	353 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	353 mg/m ³
Long-term - systemic effects, oral	0.06 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	88.3 mg/m ³
Long-term - systemic effects, dermal	2395 mg/kg bodyweight/day
DNEL/DMEL (additional information)	
Additional information	Dichloromethane

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection. Wear closed safety glasses. EN 166. Use face shield for larger quantities.

8.2.2.2. Skin protection

Skin and body protection:

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection:

Wear protective gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

. Splash contact-material: Fluorinated rubber

Minimum layer thickness: 0,7 mm

Break through time: 120 min

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory protection. Required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards:

DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: -97 °C (main component)
Freezing point	: Not available
Softening point	: at 1013 hPa (main component).
Boiling point	: 40 °C (main component)
Flammability	: Not available
Lower explosion limit	: 12 vol % (main component)
Upper explosion limit	: 19 vol % (main component)

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Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Water: completely soluble (main component).
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 470.9 hPa (main component)
Vapour pressure at 50 °C	: Not available
Density	: 1.325 g/cm ³ at 25 °C (main component)
Relative density	: Not available
Relative vapour density at 20 °C	: 2.93 (main component)
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under the specified storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Extremely high or low temperatures.

10.5. Incompatible materials

Alkali metals, Strong acids and Strong bases, Strong oxidizing agents, Strong reducing agents, Amines, Vinyl compounds, Aluminum, Magnesium.

10.6. Hazardous decomposition products

In the event 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 (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Dichloroacetic acid (79-43-6)	
LD50 oral rat	2820 mg/kg AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 4, Pg. 119, 1951.
LD50 dermal rabbit	803 mg/kg AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 4, Pg. 119, 1951.

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Dichloromethane (75-09-2)	
LD50 oral rat	> 2000 mg/kg male and female (OECD Test Guideline 401)
LD50 dermal rat	> 2000 mg/kg male and female (OECD Test Guideline 402)
LC50 Inhalation - Rat	86 mg/l 4 h - Remarks: (ECHA) Symptoms: Possible damages: mucosal irritations

Skin corrosion/irritation : Causes skin irritation.
Additional information : Dichloromethane: Skin - Rabbit
Result: Irritations - 4 h
(OECD Test Guideline 404)
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Dichloroacetic Acid:
Skin - Rabbit
Result: Causes severe burns.
Remarks: (RTECS)

Dichloroacetic acid (79-43-6)	
pH	1.2 at 20 °C; 129 g/l

Serious eye damage/irritation : Causes serious eye damage.
Additional information : Dichloromethane: Eyes - Rabbit
Result: Eye irritation
Remarks: (ECHA)
Risk of corneal clouding.

Dichloroacetic Acid:
Eyes - Rabbit
Result: Causes serious eye damage.
Remarks: (RTECS)
Causes serious eye damage.

Dichloroacetic acid (79-43-6)	
pH	1.2 at 20 °C; 129 g/l

Respiratory or skin sensitisation : Not classified
Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Additional information : Dichloromethane:
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Result: positive

Test Type: Ames test
Test system: Salmonella typhimurium
Result: positive
Method: OECD Test Guideline 474

Carcinogenicity : Dichloromethane: Limited evidence of carcinogenicity in animal studies. Suspected human carcinogens. Dichloroacetic Acid: Suspected of causing cancer.

Reproductive toxicity : May damage fertility. May damage the unborn child.
Additional information : Dichloroacetic Acid:
May damage the unborn child.
May damage fertility. Studies indicating a hazard to babies during the lactation period

STOT-single exposure : May cause drowsiness or dizziness.

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Additional information	: Dichloromethane: Inhalation: May cause drowsiness or dizziness. - Central nervous system Acute inhalation toxicity - Possible damages: mucosal irritations
STOT-repeated exposure	: Not classified
Additional information	: Dichloroacetic Acid: Oral: May cause damage to organs through prolonged or repeated exposure. -Brain, Liver, Testes
Aspiration hazard	: Not classified

Dichloroacetic acid (79-43-6)

Viscosity, kinematic	4.696 mm ² /s at 20 °C.
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Dichloromethane (75-09-2)

Viscosity, kinematic	0.323 mm ² /s
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher.
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11.2.2. Other information

Other information	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated, Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Dichloroacetic acid (79-43-6)

EC50 - Crustacea [1]	106 mg/l Daphnia magna (Water flea) - 24 h Remarks: (ECOTOX Database)
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Dichloromethane (75-09-2)

LC50 - Fish [1]	193 mg/l Flow-through test LC50 - Pimephales promelas (fathead minnow) - 96 h Remarks: (ECHA)
EC50 - Crustacea [1]	1250 – 1680 mg/l Kuhn, R., M. Pattard, K.D. Pernak, and A. Winter 1989.

12.2. Persistence and degradability

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)

Persistence and degradability	Not established.
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Dichloroacetic acid (79-43-6)

Persistence and degradability	Not established.
Biodegradation	93 % Aerobic - Exposure time 15 d Result: Readily biodegradable. (OECD Test Guideline 301F)

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Dichloromethane (75-09-2)

Biodegradation	68 % aerobic - Exposure time 28 d Result: Readily biodegradable. (OECD Test Guideline 301D)
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12.3. Bioaccumulative potential

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)

Bioaccumulative potential	Not established.
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Dichloroacetic acid (79-43-6)

Partition coefficient n-octanol/water (Log Kow)	0.92 Bioaccumulation is not expected.
Bioaccumulative potential	Not established.

Dichloromethane (75-09-2)

BCF - Fish [1]	2 – 5.4 Cyprinus carpio (Carp) - 6 Weeks - 250 µg/l(Dichloromethane)
Partition coefficient n-octanol/water (Log Kow)	1.25

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)

Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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Component

Dichloroacetic acid (79-43-6)	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher.
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12.7. Other adverse effects

Additional information	: Avoid release to the environment.
Dichloromethane	: Toxicity to fish: Flow through test LC50 - Pimephales promelas (fathead minnow): 193,00 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates: Static test LC50 - Daphnia magna (Water flea): 27 mg/l - 48 h Remarks: (US-EPA) Toxicity to bacteria: static test EC50 - activated sludge: 2.590 mg/l - 40 min Remarks: (OECD Test Guideline 209)
Dichloroacetic Acid	: Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea): 106 mg/l - 24 h Remarks: (ECOTOX Database)

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Product residues are to be disposed of in compliance with national and regional regulations dispose. Keep chemicals in original containers. Not with other waste mix. Uncleaned containers are to be treated according to the product. Pay attention to the waste policy 2008/98/EG.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 2922	UN 2922	UN 2922
14.2. UN proper shipping name		
CORROSIVE LIQUID, TOXIC, N.O.S. (Solution of Dichloroacetic acid in Methylene chloride)	CORROSIVE LIQUID, TOXIC, N.O.S. (Solution of Dichloroacetic acid in Methylene chloride)	Corrosive liquid, toxic, n.o.s. (Solution of Dichloroacetic acid in Methylene chloride)
14.3. Transport hazard class(es)		
8 (6.1)	8 (6.1)	8 (6.1)
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Orange plates



Tunnel restriction code (ADR)

: E

Transport by sea

EmS-No. (Fire)

: F-A

EmS-No. (Spillage)

: S-B

Properties and observations (IMDG)

: Causes burns to skin, eyes and mucous membranes.

Air transport

No data available

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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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information	: REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Dichloromethane
	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	: ENVIRONMENTAL HAZARDS

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Employment restrictions	: Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	: LGK 6.1D - Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects.

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Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation
Met. Corr. 1	Corrosive to metals, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

DCA Deblock Solution (3% ; 6% Dichloroacetic acid in Methylene chloride)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.