Trichloroacetic acid

Safety Data Sheet

according to Regulation (EU) 2015/830

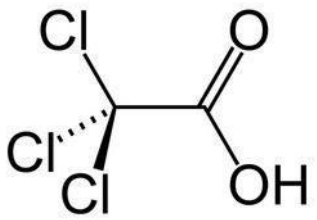
Date of issue: 01/06/2022

Doc No: SDS-974.016/2

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

1.1. Product identifier

Product form	:	Substance
Substance name	:	Trichloroacetic acid
EC Index-No.	:	607-004-00-7
EC-No.	:	200-927-2
CAS-No.	:	76-03-9
Type of product	:	Pure substance,Hygroscopic substance. Preventive measures apply to the substance in dry state only
Formula	:	C2HCl3O2
Chemical structure	:	



Synonyms	:	acetic acid, trichloro- / aceto caustin / amchem grass killer / konesta (=trichloroacetic acid) / TCA (=trichloroacetic acid) / Trichloroacetic acid / trichloroethanoic acid

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Herbicide, Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH
Am Dillhof 2 - 63863 Eschau / GERMANY
Tel: + 49 93 74 / 978 55-0
Fax: +49 93 74 / 978 55-29
prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion, Category 1A	H314
Specific target organ toxicity - single exposure, Category 3, Respiratory system,	H335
Acute aquatic toxicity, Category 1	H400
Chronic aquatic toxicity, Category 1,	H410

Full text of hazard classes and H-statements : see section 16

Specific concentration limits:

(C >= 1) STOT SE 3, H335

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection, face protection, protective clothing
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
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 + P310 - IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Trichloroacetic acid	(CAS-No.) 76-03-9 (EC-No.) 200-927-2 (EC Index-No.) 607-004-00-7	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Doctor: administration of corticoid spray. Immediately consult a doctor/medical service.

First-aid measures after skin contact : Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Take the container/vomit to the doctor/hospital. Do not give chemical antidote. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation : AFTER INHALATION OF DUST: Corrosion of the upper respiratory tract. Dry/sore throat. Coughing. Headache. Feeling of weakness. Dizziness. Respiratory difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Corrosion of the eye tissue.

Symptoms/effects after ingestion : Dry/sore throat. Abdominal pain. Diarrhoea. Blood in vomit. Burns to the gastric/intestinal mucosa.

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Polyvalent foam.

Unsuitable extinguishing media : Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. No naked flames. Prevent dust cloud formation. Corrosion-proof appliances. Wash contaminated clothes. Protect substance against light. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Measures in case of dust release : In case of dust production: keep upwind.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up : Stop dust cloud by covering with sand/earth or slaked lime or soda ash. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. See "Material-handling" for suitable container materials. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. metals. water/moisture.

Storage area	:	Store in a dry area. Ventilation at floor level. Provide for a tub to collect spills. Aboveground. Meet the legal requirements.
Special rules on packaging	:	SPECIAL REQUIREMENTS: closing. watertight. corrosion-proof. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	:	SUITABLE MATERIAL: polyethylene. polypropylene. glass. PVC. Teflon. MATERIAL TO AVOID: zinc. aluminium.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Trichloroacetic acid (76-03-9)		
EU	Local name	Trichloroacetic acid
EU	Notes	SCOEL Recommendations (2004)
Austria	Local name	Trichloressigsäure
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK (ppm)	1 ppm
Belgium	Local name	Acide trichloroacétique # Trichloorazijnzuur
Belgium	Limit value (mg/m³)	6.8 mg/m³ (Acide trichloroacétique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Acide trichloroacétique; Belgium; Time-weighted average exposure limit 8 h)
Bulgaria	Local name	Трихлороцетна киселина
Bulgaria	OEL TWA (mg/m³)	7 mg/m³
Denmark	Local name	Trichloreddikesyre
Denmark	Grænseværdie (langvarig) (mg/m³)	1 mg/m³
France	Local name	Acide trichloroacétique
France	VME (mg/m³)	5 mg/m³ (Acide trichloroacétique; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (Acide trichloroacétique; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	Note (FR)	Valeurs recommandées/admises
Ireland	Local name	Trichloroacetic acid
Ireland	OEL (8 hours ref) (mg/m³)	5 mg/m³
Ireland	OEL (8 hours ref) (ppm)	1 ppm
Latvia	Local name	Trihloretiķskābe
Latvia	OEL TWA (mg/m³)	5 mg/m³
Poland	Local name	Kwas trichlorooctowy
Poland	NDS (mg/m³)	2 mg/m³
Poland	NDSCh (mg/m³)	4 mg/m³
Portugal	Local name	Ácido tricloroacético
Portugal	OEL TWA (ppm)	0.5 ppm
Spain	Local name	Ácido tricloroacético
Spain	VLA-ED (mg/m³)	6.8 mg/m³
Spain	VLA-ED (ppm)	1 ppm
Iceland	Local name	Tríklórediksýra
Iceland	OEL (8 hours ref) (mg/m³)	1 mg/m³
Russian Federation	Local name	Трихлорэтановая кислота+
Russian Federation	OEL Ceiling (mg/m³)	5 mg/m³
Russian Federation	Remark (RU)	3 класс опасности - опасное; п + а (смесь паров и аэрозоля); + (соединения, при работе с которыми требуется специальная защита кожи и глаз; символ проставлен вслед за наименованием вещества)
Norway	Local name	Trikloreddiksyre

Trichloroacetic acid (76-03-9)		
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³
Norway	Grenseverdier (AN) (ppm)	0.75 ppm
Switzerland	Local name	Trichloressigsäure
Switzerland	VME (mg/m³)	7 mg/m³
Switzerland	VME (ppm)	1 ppm
Switzerland	Remark (CH)	Auge[KT HU] & OAW[KT HU]
Australia	Local name	Trichloroacetic acid
Australia	TWA (mg/m³)	6.7 mg/m³
Australia	TWA (ppm)	1 ppm
USA - ACGIH	Local name	Trichloroacetic acid
USA - ACGIH	ACGIH TWA (ppm)	0.5 ppm (Trichloroacetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA - ACGIH	Remark (ACGIH)	Eye & URT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: nitrile rubber. GIVE LESS RESISTANCE: polyethylene

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Crystalline solid.
Molecular mass	:	163.38 g/mol
Colour	:	Colourless to white.
Odour	:	Irritating/pungent odour.
Odour threshold	:	0.24 - 0.38 ppm 1.6 - 2.5 mg/m³
pH	:	< 1 (50 g/l, H_2O, 20 °C)
pH solution	:	5 %
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	54 - 58 °C
Freezing point	:	54 - 58 °C
Boiling point	:	197 °C at 1,013 hPa
Flash point	:	No data available
Auto-ignition temperature	:	No data available

Decomposition temperature	:	> 200 °C
Flammability (solid, gas)	:	No data available
Vapour pressure	:	0.1 hPa (20 °C)
Vapour pressure at 50 °C	:	1.3 hPa (50 °C)
Relative vapour density at 20 °C	:	5.7
Relative density	:	1.6
Density	:	1.62 g/cm^3 (20 °C)
Solubility	:	Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in methanol. Water: 130 g/100ml Ethanol: 2143 g/100ml Ether: 617 g/100ml
Log Pow	:	1.33 (Experimental value)
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

Saturation concentration	:	0.67 g/m³
VOC content	:	100 %
Other properties	:	Hygroscopic. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating/burning: release of toxic and corrosive gases/vapours (hydrogen chloride, phosgene, carbon monoxide - carbon dioxide). Reacts with (strong) oxidizers: (increased) risk of fire/explosion. Reacts exothermically with (some) bases: release of harmful/irritant gases/vapours (carbon monoxide - carbon dioxide). Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Trichloroacetic acid (76-03-9)	
LD50 oral rat	3320 mg/kg

Skin corrosion/irritation	:	Causes severe skin burns and eye damage. pH: 1.2 (16 %)
Serious eye damage/irritation	:	Serious eye damage, category 1, implicit pH: 1.2 (16 %)
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Dangerous for the environment.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.5/I.

Ecology - water : Water pollutant (surface water). Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > 1000 mg/l). Not harmful to bacteria (EC50 >1000 mg/l). Highly toxic to aquatic organisms. pH shift.

Trichloroacetic acid (76-03-9)	
LC50 fish 1	2000 mg/l (LC50; 96 h)
EC50 Daphnia 2	2000 mg/l (EC50; 48 h)

12.2. Persistence and degradability

Trichloroacetic acid (76-03-9)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Trichloroacetic acid (76-03-9)	
BCF fish 1	< mg/l 0.4/<1.7,BCF
Log Pow	1.33 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Trichloroacetic acid (76-03-9)	
Surface tension	0.278 N/m (80 °C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an incinerator for chlorinated waste materials with energy recovery. Avoid any discharge of the product into waste water.

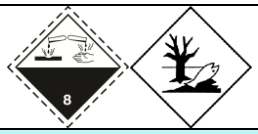
Additional information : LWCA (the Netherlands): KGA category 04. Hazardous waste according to Directive 2008/98/EC.

European List of Waste (LoW) code : 07 04 13* - solid wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1839	1839	1839	1839	1839
14.2. UN proper shipping name				
TRICHLOROACETIC ACID	TRICHLOROACETIC ACID, SOLID	Trichloroacetic acid	TRICHLOROACETIC ACID	TRICHLOROACETIC ACID
Transport document description				
UN 1839 TRICHLOROACETIC ACID, 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 1839 TRICHLOROACETIC ACID, SOLID, 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1839 Trichloroacetic acid, 8, II, ENVIRONMENTALLY HAZARDOUS	UN 1839 TRICHLOROACETIC ACID, 8, II, ENVIRONMENTALLY HAZARDOUS	UN 1839 TRICHLOROACETIC ACID, 8, II, ENVIRONMENTALLY HAZARDOUS

ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	:	C4
Limited quantities (ADR)	:	1kg
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P002, IBC08
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAN, L4BN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Hazard identification number (Kemler No.)	:	80
Orange plates	:	80 1839
Tunnel restriction code (ADR)	:	E
EAC code	:	2X

- Transport by sea

Transport regulations (IMDG)	:	Subject
Limited quantities (IMDG)	:	1 kg
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B2, B4
Tank instructions (IMDG)	:	T3
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Colourless, deliquescent crystals. Melting point of the pure substance: 58°C . In the presence of moisture, corrosive to most metals. Causes burns to skin, eyes and mucous membranes.
MFAG-No	:	153

- Air transport

Transport regulations (IATA)	:	Subject to the provisions

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y844
PCA limited quantity max net quantity (IATA)	:	5kg
PCA packing instructions (IATA)	:	859
PCA max net quantity (IATA)	:	15kg
CAO packing instructions (IATA)	:	863
CAO max net quantity (IATA)	:	50kg
ERG code (IATA)	:	8L

- Inland waterway transport

Classification code (ADN)	:	C4
Limited quantities (ADN)	:	1 kg
Excepted quantities (ADN)	:	E2
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0

- Rail transport

Transport regulations (RID)	:	Subject
Classification code (RID)	:	C4
Limited quantities (RID)	:	1kg
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P002, IBC08
Special packing provisions (RID)	:	B4
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	T3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAN, L4BN
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W11
Colis express (express parcels) (RID)	:	CE10
Hazard identification number (RID)	:	80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

No REACH Annex XVII restrictions

Trichloroacetic acid is not on the REACH Candidate List

Trichloroacetic acid is not on the REACH Annex XIV List

VOC content : 100 %

15.1.2. National regulations

Germany

VwVwS Annex reference	:	Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 197)
WGK remark	:	Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed

SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	Trichloroacetic acid is listed

Denmark

Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS ISOLAB

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