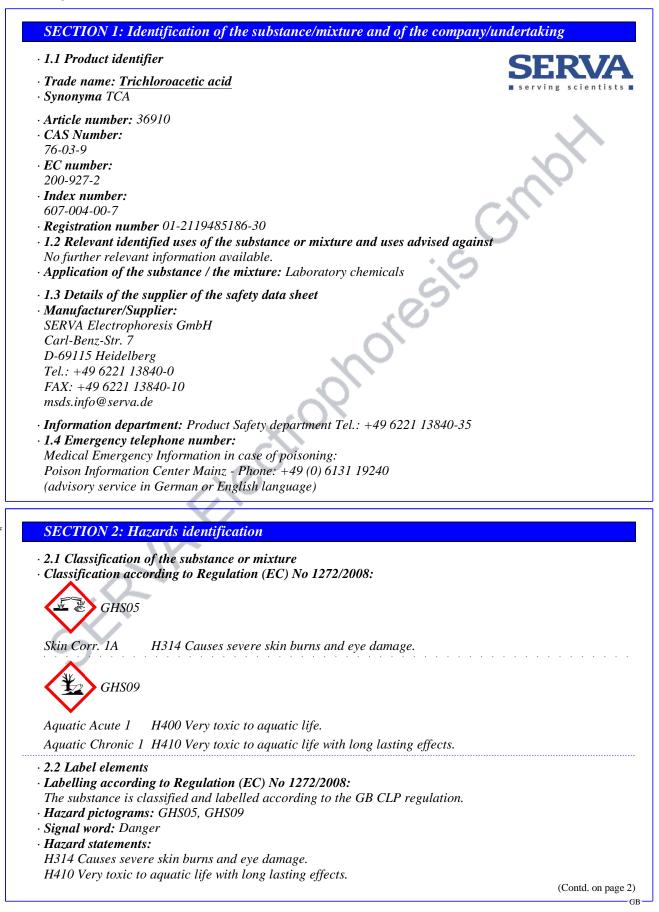
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Version number 4 Printing date 11.05.2023 Trade name: Trichloroacetic acid (Contd. of page 1) · Precautionary statements P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · Labelling of packages where the contents do not exceed 125 ml · Hazard pictograms GHS05, GHS09 · Signal word Danger · Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. 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. · 2.3 Other hazards • Results of PBT and vPvB assessment: · **PBT:** PBT - assessment not available. · **vPvB**: vPvB - assessment not available. · Determination of endocrine-disrupting properties No further relevant information available. **SECTION 3: Composition/information on ingredients** · 3.1 Substances · CAS No. Description: 76-03-9 trichloroacetic acid · Identification number(s): · EC number: 200-927-2 · Index number: 607-004-00-7

• Specific concentration limits STOT SE 3; H335: $C \ge 1$ %

· Description:

- · Empirical formula: 76-03-9 trichloroacetic acid $C_2 H Cl_3 O_2$
- · MW: 163.4

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Remove contaminated clothing.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.

• After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

· After swallowing:

Do not induce vomitting - risc of chemical burns!

Drink copious amounts of water and provide fresh air. Call for doctor immediately.

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- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents:
- CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:
- In case of fire, the following can be formed, but not limited to: Hydrogen chloride (HCl) Phosgene gas
- Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust. Do not inhale dusts.
6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
6.3 Matheda and material for containment and closure up.

• 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to item 13. Pick up mechanically.

6.4 Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling: No special precautions are necessary if used correctly.

- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.
- 7.3 Specific end use(s): No other specific uses as mentioned in section 1.2..

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

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DNELs	
Worker: Long term exposition - systemic effect,	· · · · · · · · · · · · · · · · · · ·
workers: long term exposure-systemic effects, de	
worker: Acute exposition - local effects, dermal:	5% in mixture
PNECs	
PNEC sewage treatment plant: 100 mg/l	
PNEC fresh water: 0,17 μg/l	
PNEC fresh water sediment: 0,14 µg/kg dry weig	ght
<i>PNEC marine water: 0,017 μg/l</i>	
PNEC marine water sediment: 0,014 µg/kg dry v	veight
PNEC soil: 4,6 μg/kg dry weight	
Additional information: The lists that were valid	d during the creation were used as basis.
8.2 Exposure controls	
Appropriate engineering controls: No further do	ata: see item 7.
Individual protection measures, such as person	
General protective and hygienic measures:	r
Keep away from foodstuffs, beverages and feed.	
Store protective clothing separately.	
Immediately remove all soiled and contaminated	lclothing
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end of work	k.
Breathing equipment:	
Short term filter device:	
Filter A/P2.	
Hand protection:	
	esistant to the product/ the substance/ the preparation.
Protective gloves.	
	glove material can be given for the product/ the preparation
the chemical mixture.	were material can be given for the product the preparation
	tion of the penetration times, rates of diffusion and th
degradation	mon of the penetration times, rates of affusion and th
Material of gloves:	
	only depend on the material, but also on further marks of
quality and varies from manufacturer to manufactur	
<i>Penetration time of glove material:</i>	
	t by the manufacturer of the protective gloves and has to l
observed.	ι σγ της παπαματιάτει οj της ριδιεστίνε gioves απά has to t
	f 15 minutes gloves made of the following materials an
r or the permanent contact of a maximum of suitable:	1.5 minutes gives made of the following materials al
Butyl rubber, BR	
Chloroprene rubber, CR	
<i>Eye/face protection:</i> Tightly sealed goggles.	
Body protection: Protective work clothing.	

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	(Contd. of page 4
· Flammability:	no information available
Lower and upper explosion limit:	•
	no information available
Upper:	no information available
Flash point:	110 °C
Decomposition temperature:	$> 200 \ ^{\circ}C$
pH:	<1
Viscosity:	
	no information available
	no information available
Solubility:	*
Water at 20 °C:	1300 g/l
Partition coefficient n-octanol/water (log value):	no information available
Vapour pressure at 50 °C:	1.2 hPa
Density and/or relative density:	
Density:	no information available
Relative density:	no information available
Particle characteristics	No information available
9.2 Other information	
Appearance:	
Form:	Crystalline
Important information on protection of health and	
environment, and on safety:	
	<i>Product does not present an explosion hazard.</i>
Molecular weight	163.4 g/mol

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant informations available
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant informations available.
- · 10.4 Conditions to avoid: high ttemperatures
- · 10.5 Incompatible materials:

Avoid contact with:

Bases

metals

• 10.6 Hazardous 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:
- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

Oral LD50 3,320 mg/kg (rat)

- · Skin corrosion/irritation: Causes severe skin burns and eye damage.
- · Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- 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.

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· Additional toxicological information:

- · Acute effects (acute toxicity, irritation and corrosivity) Respiratory irritation is possible.
- · 11.2 Information on other hazards:

· Endocrine disrupting properties: no relevant information available

SECTION 12: Ecological information

· 12.1 Toxicity:

• Aquatic toxicity:

CAS 76-03-9 Trichloroacetic acid / Toxicity to algae: EC50/14d (Chlorella pyrenoidosa) = 0,27 mg/l Toxicity to bacteria $EC_{10}/24h$ (Pseudomonas putida): > 880 mg/l

- 12.2 Persistence and degradability: No further relevant information available.
- Other information:
- The product is not easily biodegradable. 59 % (20 d); OECD 302 B
- 12.3 Bioaccumulative potential: No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- · Remark:

Toxic to aquatic life with long lasting effects.

- LC 50 / 48 h (Leuciscus idus): > 1000 mg / l
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation:* Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1839
· 14.2 UN proper shipping name · ADR	1839 TRICHLOROACETIC ACID, ENVIRONMENTALLY HAZARDOUS
· IMDG, IATA	TRICHLOROACETIC ACID
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14.3 Transport hazard class(es)	
ADR	
Class: Label:	8 Corrosive substances. 8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards	Environmentally hazardous substance, solid
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Corrosive substances. 80 5 A S B
EMS Number: Segregation groups	F-A,S-B (SGG1) Acids
Stowage Category	A
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IM instruments	IO Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2
()	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
Transport category Tunnel restriction code	2 E
IMDG	
Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
UN ''Model Regulation'':	UN 1839 TRICHLOROACETIC ACID, 8, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

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Samaa antanam El Harandous to the Aquatic Environment	(Contd. of page
Seveso category E1 Hazardous to the Aquatic Environment	anta 100 t
Qualifying quantity (tonnes) for the application of lower-tier requirem.	
Qualifying quantity (tonnes) for the application of upper-tier requirem	
DIRECTIVE 2011/65/EU on the restriction of the use of certain haz	ardous substances in electrical an
electronic equipment – Annex II	
Substance is not listed.	
REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit	t value for the purpose of licensin
under Article 5(3))	
Substance is not listed.	
Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is	
Regulation (EC) No 273/2004 on drug precursors Substance is not liste	ed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of	f trade between the Community an
third countries in drug precursors	
Substance is not listed.	
National regulations:	
Technical instructions (air):	
Class Share in %	
I 80-100	
Water hazard class: Water hazard class 2 (Assessment by list): hazardou	us for water
15.2 Chemical safety assessment: A Chemical Safety Assessment has be	
SECTION 16: Other information This information is based on our present knowledge. However, this sha	Il not constitute a guarantee for a
This information is based on our present knowledge. However, this sha	
This information is based on our present knowledge. However, this sha specific product features and shall not establish a legally valid contract	
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