#### ΕN

# VOLTECO S.p.A TPZT - TRIPLEZERO T

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# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Code: TPZT

Product name TRIPLEZERO T

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

Intended use Hydrophobic cream for construction

1.3. Details of the supplier of the safety data sheet

Name VOLTECO S.p.A Full address via delle industrie 47

District and Country 31050 Ponzano Veneto (TV)

Italia 04229663

e-mail address of the competent person

responsible for the Safety Data Sheet volteco@volteco.it

1.4. Emergency telephone number

For urgent inquiries refer to +39 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e

Accettazione DEA - Roma - 00165)

+39 800183459 (Az. Osp. Univ. Foggia - Foggia - 71222) +39 081 7472870 (Az. Osp. "A. Cardarelli" - Napoli - 80131) +39 06 49978000 (CAV Policlinico "Umberto I" - Roma - 161) +39 06 3054343 (CAV Policlinico "A. Gemelli" - Roma - 168)

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27100)

+39 02 66101029 (Osp. Niguarda Ca' Granda - Milano - 20162)

+39 800883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo - 24127)

### **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it re-

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH066** Repeated exposure may cause skin dryness or cracking.

**EUH210** Safety data sheet available on request.

EUH208 Contains: REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND

2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

May produce an allergic reaction.

Precautionary statements: --

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#### SECTION 2. Hazards identification .../>>

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

Inhalation of aerosols can cause damage to health.

The product hydrolyzes to form ethanol (CAS no. 64-17-5). Ethanol is classified for both physical hazards and health hazards. The rate of hydrolysis and therefore also the relevance for the hazard of the product depends strongly on the specific conditions.

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Mixture of aliphatic hydrocarbons

INDEX  $40 \le x < 50$  Asp. Tox. 1 H304, EUH066

EC 927-676-8

CAS

REACH Reg. 01-2119456377-30

Aliphatic and naphthalene hydrocarbons

INDEX 649-327-00-6  $10 \le x < 20$  Asp. Tox. 1 H304, EUH066

EC 265-150-3 CAS 64742-48-9

REACH Reg. 01-2119456810-40

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

INDEX 613-167-00-5  $0 \le x < 0,0015$  Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C

H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100, EUH071, Classification note according to

Annex VI to the CLP Regulation: B

*EC* Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥

0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%

CAS 55965-84-9 STA Oral: 100 mg/kg, LD50 Dermal: 87,12 mg/kg, LC50 Inhalation

mists/powders: 0,171 mg/l/4h

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

### **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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#### SECTION 5. Firefighting measures .../>>

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

# 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

# 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

Information on fire and explosion protection:

The product may release ethanol. In closed environments, vapors can form mixtures with air, which in the presence of ignition sources cause explosions even inside empty, uncleaned containers. Keep away from sources of ignition and do not smoke. Take precautions against electrostatic charges. Cool containers in danger with water.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Minimum temperature during storage and transport: 1 °C Maximum temperature during storage and transport: 35°C

#### 7.3. Specific end use(s)

Information not available

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## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Valori limite della qualità dell'aria sul posto di lavoro:

Etanolo TLV IT 1000,0 ppm

Aerosol - frazione inalabile 10,0 mg/m3

Regulatory references:

DEU Deutschland Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und

Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung

gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56

## REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE

(3:1)

Threshold Limit Value

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15m	in	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,2		0,4		INHAL

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# **SECTION 9. Physical and chemical properties**

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

PropertiesValueAppearancepasty liquidColouryellowish

Odour characteristic of solvent

Melting point / freezing point not available Initial boiling point not available Flammability not available Lower explosive limit 0,6 % (v/v) Upper explosive limit not available Flash point 65 °C

Information

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Temperature: 25 °C

Temperature: 40 °C

#### SECTION 9. Physical and chemical properties ..../>>

Auto-ignition temperature 374 °C

Decomposition temperature not available

pH 4,5-7
Kinematic viscosity > 20,5 mm2/s
Solubility Miscibile con acqua

Partition coefficient: n-octanol/water not applicable
Vapour pressure not available
Density and/or relative density 0,848 g/cm3
Relative vapour density not available
Particle characteristics not applicable

# 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Sustained combustion > 110°C (ISO 9038)

Explosion limits Ethanol released: 3,5-15% Vol.

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Reacts with: basic substances and acids. The reaction takes place with the formation of ethanol.

## 10.6. Hazardous decomposition products

With ethanol hydrolysis. For the part of silicone present in the substance, the following applies: Controls show that at temperatures above 150°C, due to oxidative decomposition, a small quantity of formaldehyde is released.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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#### SECTION 11. Toxicological information .../>>

Information not available

Interactive effects

Information not available

**ACUTE TOXICITY** 

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

 LD50 (Dermal):
 87,12 mg/kg Rabbit

 LD50 (Oral):
 457 mg/kg Rat

 LC50 (Inhalation mists/powders):
 0,171 mg/l/4h Rat

#### Assessment:

Respirable aerosols containing aminofunctional polysiloxanes may cause harmful effects on the lungs if inhaled in animal testing. Given the many possible influencing factors (e.g. amino function, degree of substitution, viscosity, composition) it is not possible to estimate the toxicological effects on the lungs for untested products of this type. In these cases, the inhalation of respirable aerosols must be prevented by means of appropriate technical measures.

Acute Toxicity Estimate (ATE): ATEmix (Oral): > 2000 mg/kg

Data on substances:

Aminofunctional polydimethylsiloxane:

Oral LD50 > 2000 mg/kg

Species: Rat, Source: Conclusion by analogy

#### SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

Data on substances:

Aminofunctional polydimethylsiloxane:

No skin irritation

(Species: Rabbit, Source: Conclusion by analogy)

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Data on substances:

Aminofunctional polydimethylsiloxane:

No eye irritation

(Species: Rabbit, Source: Conclusion by analogy)

## **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction.

Contains:

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Data on substances:

Aminofunctional polydimethylsiloxane:

Skin contact: Does not cause skin sensitization.

(Species: Guinea pig, Test system: Maximization Test, Method: OECD 406, Source: Conclusion by analogy)

#### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

Data on substances:

Aminofunctional polydimethylsiloxane: negative

(Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: analysis report)

#### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

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#### **SECTION 11. Toxicological information** .../>>

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### **STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class Viscosity: > 20,5 mm2/s

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

Data on substances:

Aliphatic and naphthenic hydrocarbons:

According to the literature, aliphatic hydrocarbons have a slightly irritating effect on the epidermis and mucous membranes. Degreases the skin. Narcotic. In case of direct action on lung tissues (e.g. by aspiration) it can cause pneumonia.

Hydrolysis products (Ethanol):

Ethanol (64-17-5) is absorbed well and rapidly with all routes of exposure. Ethanol can cause irritation of the eyes and mucous membranes as well as functional alterations of the central nervous system, nausea and dizziness. Chronic exposure to large quantities of ethanol can cause damage to the liver and central nervous system.

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

LC50 - for Fish

0,19 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

0,16 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

0,0052 mg/l/72h Skeletonema costatum

Chronic NOEC for Fish 0,02 mg/l Danio rerio
Chronic NOEC for Crustacea 0,1 mg/l Daphnia magna

Chronic NOEC for Algae / Aquatic Plants 0,00049 mg/l Skeletonema costatum

Data on substances:

The data collected on the overall product has priority over the data of the individual ingredients.

Aminofunctional polydimethylsiloxane:

LC50: > 100 mg/l - Static test Oncorhynchus mykiss (rainbow trout) (96 h), Conclusion by analogy

EC50: > 100 mg/l - Static test Daphnia magna (Water flea) (48 h), Conclusion by analogy

#### 12.2. Persistence and degradability

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Solubility in water > 10000 mg/l

NOT rapidly degradable

Data on substances:

Aminofunctional polydimethylsiloxane:

Biodegradability:

easily eliminated (Conclusion by analogy OECD 302B)

Hydrolysis products (Ethanol): Ethanol is easily biodegradable.

# 12.3. Bioaccumulative potential

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

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0,75

< 54

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#### SECTION 12. Ecological information .../>>

Partition coefficient: n-octanol/water BCF

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

# 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

## 14.6. Special precautions for user

not applicable

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

Information not relevant

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# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point 75 REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND

2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Asp. Tox. 1 Aspiration hazard, category 1
Skin Corr. 1C Skin corrosion, category 1C
Skin Sens. 1A Skin sensitization, category 1A

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

**H400** Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.
EUH210 Safety data sheet available on request.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008

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#### SECTION 16. Other information .../>>

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

# CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for

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# VOLTECO S.p.A TPZT - TRIPLEZERO T

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evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.