Revision nr. 1 MARBEC S.R.L. Dated 09/05/2023 First compilation Printed on 09/05/2023 0030487 - TON PLUS Page n. 1/16

Safety Data Sheet
According to Annex II to REACH - Regulation 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

0030487 Code: Product name **TON PLUS** Chemical name and synonym **TON PLUS**

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

Toning protective water-oil repellent for absorbent stone materials Intended use

1.3. Details of the supplier of the safety data sheet

Name MARBEC S.R.L. VIA CROCE ROSSA 5/i Full address District and Country 51037 MONTALE (PISTOIA)

ITALIA

Tel. +039 0573/959848

Fax

e-mail address of the competent person responsible for the Safety Data Sheet

info@marbec.it Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to MARBEC srl

0573959848 h8.30-13 h14-18 o +393348578502 Numero telefonico di Centri Antiveleni attivi 24/24 ore

IRCSS Fondazione Maugeri -Pavia 0039-0382-24444 CAV Ospedali Riuniti -Bergamo 0039-800-883300

CAV Ospedale Niguarda Ca` Granda -

Milano 0039-02-66101029

CAV Ospedale Careggi- Firenze 0039-055-7947819

CAV Policlinico Gemelli -Roma 0039-06-3054343 CAV Policlinico Umberto I -Roma 0039-06 49978000 CAV Ospedale Cardarelli -Napoli 0039-081 5453333

CAV Azienda Ospedaliera Integrata Verona - Verona 800011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin irritation, category 2 H315 Causes skin irritation.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H315 Causes skin irritation.

Precautionary statements:

P280 Wear protective gloves.

P264 Wash . . . thoroughly after handling.

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%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

WATER

CAS 7732-18-5 $50 \le x < 100$

EC 231-791-2 INDEX -

Poly-((2-

aminoethyl)amino)propylmethyldimethyl(siloxanehydroxy-

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terminated

CAS 75718-16-0

 $10 \le x < 30$

Skin Irrit. 2 H315

EC 616-256-7

INDEX -

INERT

CAS $3 \le x < 9$

EC

INDEX -

2-BROMO-2-NITROPROPAN-1,3-

DIOL

CAS 52-51-7 0 ≤ x < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315,

STOT SE 3 H335, Aquatic Acute 1 H400 M=10 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg

INDEX 603-085-00-8

ACETIC ACID

EC 200-143-0

CAS 64-19-7 0 ≤ x < 0,5 Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note

according to Annex VI to the CLP Regulation: B

EC 200-580-7 Skin Corr. 1A H314: ≥ 90%, Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥

10%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 10%

INDEX 607-002-00-6

REACH Reg. 01-2119475328-30-

XXXX

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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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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.

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.

Storage class TRGS 510 (Germany):

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7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher DEU Deutschland Arbeitsstoffe, Mitteilung 56 **ESP** España Límites de exposición profesional para agentes químicos en España 2021 FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS ITA PRT Italia Decreto Legislativo 9 Aprile 2008, n.81 Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à Portugal exposição durante o trabalho a agentes cancerígenos ou mutagénicos EH40/2005 Workplace exposure limits (Fourth Edition 2020)
Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; GBR United Kingdom ΕU OEL EU Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. TLV-ACGIH ACGIH 2021

Туре	Country	try TWA/8h STEL/15min			Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	C DOOL VALIGITO
AGW	DEU	25	10	50 (C)	20 (C)	
MAK	DEU	25	10	50	20	
VLA	ESP	25	10	50	20	
VLEP	FRA	25	10	50	20	
VLEP	ITA	25	10	50	20	
VLE	PRT	25	10	50	20	
WEL	GBR	25	10	50	20	
OEL	EU	25	10	50	20	
TLV-ACGIH		25	10	37	15	
Predicted no-effect con	centration - PNEC					
Normal value in fresh w	vater vater			3,058		mg/l
Normal value in marine	water			0,3058		mg/l
Normal value for fresh	water sediment			1,136		mg/kg/d
Normal value for marine	e water sediment			1,136		mg/kg/d
Normal value for water,	intermittent release			30,58		mg/l
Normal value of STP m	icroorganisms			85		mg/l
Normal value for the ter	rrestrial compartment			0,478		mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Inhalation	25 mg/kg		25 mg/m3		25 mg/m3	•	25 mg/m3	

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Legend:

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

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: 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 II 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

Properties	Value	Information
Appearance	liquid	
Colour	white	
Odour	characteristic	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	not flammable	
Lower explosive limit	Not applicable	

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Upper explosive limit Not applicable

Flash point 100 °C

Auto-ignition temperature Not available pH Not available

Kinematic viscosity

Not available

Solublity

soluble in water

Partition coefficient: n-octanol/water Not available Vapour pressure Not available

Density and/or relative density 1 kg/l

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

VOC (Directive 2010/75/EU) 0,09 % - 0,80 g/litre

Explosive properties Not available Reason for missing data:<<Error>>Manca la

traduzione (Z00-1001)

Oxidising properties

Not available

Reason for missing data:<<Error>>Manca la

traduzione (Z00-1002)

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-BROMO-2-NITROPROPAN-1,3-DIOL

Decomposes on contact with: water, metals, strong bases.

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.

ACETIC ACID

Risk of explosion on contact with: chromium (VI) oxide,potassium permanganate,sodium peroxide,perchloric acid,phosphorus chloride,hydrogen peroxide.May react dangerously with: alcohols,bromine pentafluoride,chlorosulphuric acid,dichromate-sulphuric acid,ethane diamine,ethylene glycol,potassiun hydroxide,strong bases,sodium hydroxide,strong oxidising agents,nitric acid,ammonium nitrate,potassium tert-butoxide,oleum.Forms explosive mixtures with: air.

10.4. Conditions to avoid

Revision nr. 1 MARBEC S.R.L. Dated 09/05/2023 First compilation Printed on 09/05/2023 0030487 - TON PLUS Page n. 8/16 None in particular. However the usual precautions used for chemical products should be respected. 2-BROMO-2-NITROPROPAN-1,3-DIOL Avoid exposure to: light,UV rays,moisture. ACETIC ACID Avoid exposure to: sources of heat,naked flames. 10.5. Incompatible materials ACETIC ACID Incompatible with: carbonates, hydroxides, phosphates, oxidising substances, bases. 10.6. Hazardous decomposition products 2-BROMO-2-NITROPROPAN-1,3-DIOL May develop: nitric oxide, carbon oxides, hydrobromic acid. **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 Information not available

Revision nr. 1 MARBEC S.R.L. Dated 09/05/2023 First compilation Printed on 09/05/2023 0030487 - TON PLUS Page n. 9/16 Interactive effects Information not available ACUTE TOXICITY Not classified (no significant component) ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component) Poly-((2-aminoethyl)amino)propylmethyl-dimethyl(siloxanehydroxy-terminated > 2000 mg/kg ratto LD50 (Oral): LC50 (Inhalation mists/powders): > 2.6 mg/l/4hACETIC ACID 3310 mg/kg Ratto > 16000 ppm/4h Ratto LD50 (Oral): LC50 (Inhalation vapours): SKIN CORROSION / IRRITATION Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Does not meet the classification criteria for this hazard class RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class Respiratory sensitization Information not available Skin sensitization Information not available

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CERM CELL MUTA CENUCITY	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	
CARCINOGENICITY	
GANGE SERVICE TO	
Does not meet the classification criteria for this hazard class	
REPRODUCTIVE TOXICITY	
Description of the place "Continue of total for this bear and place	
Does not meet the classification criteria for this hazard class	
Adverse effects on sexual function and fertility	
Information not available	
Adverse effects on development of the offspring	
Information not available	
Effects on or via lactation	
Information not available	
STOT - SINGLE EXPOSURE	
Does not meet the classification criteria for this hazard class	
Sacrification of the diagonication of the first trib fiazard stage	
<u>Target organs</u>	
Information not available	
Route of exposure	
ιτουίο οι σοροσαίο	

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Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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.

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

2-BROMO-2-NITROPROPAN-1,3-DIOL

LC50 - for Fish 20 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1,6 mg/l/48h Daphnia magna

ACETIC ACID

LC50 - for Fish > 300,82 mg/l/96h oncorhynchus mykiss
EC50 - for Crustacea > 300,82 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants > 300,82 mg/l/72h sceletonema costatum

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12.2. Persistence and degradability

2-BROMO-2-NITROPROPAN-1,3-DIOL

Solubility in water 286000 mg/l

Rapidly degradable

ACETIC ACID

Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

2-BROMO-2-NITROPROPAN-1,3-DIOL

Partition coefficient: n-octanol/water 0,22 BCF 3,16

ACETIC ACID

Partition coefficient: n-octanol/water -0,17

12.4. Mobility in soil

ACETIC ACID

Partition coefficient: soil/water 1,153

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. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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.

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	<u> </u>
SECTION 14. Transport information	
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA)	by Road (ADR) and by Rail (RID), of regulations.
14.1. UN number or ID number	
14.11 ON HUMBON OF ID HUMBON	
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	
14.0. Environmental nazaras	
Not applicable	
14.6. Special precautions for user	
Not applicable	
14.7. Maritime transport in bulk according to IMO instruments	
Information not relevant	
SECTION 45. Dominion information	
SECTION 15. Regulatory information	
45.4. Cafety, health and anying montal variable in all a size of the substance of the subst	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	

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Seveso Category - Directive 2012/18/EU: None

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

Product

Point 3 - 40

Contained substance

Point 75

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

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

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

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

Flam. Liq. 3 Flammable liquid, category 3

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1A Skin corrosion, category 1A

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

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
- 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

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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 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)
- 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 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.