

0030104 - DISINKROSTO WC

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

Code: **0030104**
Product name: **DISINKROSTO WC**
Chemical name and synonym: **DISINKROSTO WC**

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

Field of use: **SU22 - Professional uses SU21- Consumer uses**
Product category: **PC35 - washing and cleaning products (including solvent-based products)**
Uses not recommended: **Uses other than those described.**
Description/Use: **Thickened descaling acid detergent**

1.3. Details of the supplier of the safety data sheet

Name: **MARBEC S.R.L.**
Full address: **VIA CROCE ROSSA 5/i**
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
Supplier:

info@marbec.it**1.4. Emergency telephone number**

For urgent inquiries refer to

MARBEC srl
0573959848 h8.30-13 h14-18 o 3357267921
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 corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Contains:

HYDROCHLORIC ACID
2,2'-(octadec-9-enylimino)bisethanol
2,2'-(C16-18 (even numbered, C18 unsaturated)alkylimino)diethanol

Ingredients in compliance with Regulation (EC) No. 648/2004

non-ionic surfactants < 5%
hydrochloric acid 10%<C<20%,
perfume

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
HYDROCHLORIC ACID 31-33%		
CAS 7647-01-0	$30 \leq x < 50$	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: B
EC 231-595-7		Skin Corr. 1B H314: $\geq 25\%$, Skin Irrit. 2 H315: $\geq 10\%$, Eye Dam. 1 H318: $\geq 25\%$, Eye Irrit. 2 H319: $\geq 10\%$, STOT SE 3 H335: $\geq 10\%$
INDEX 017-002-01-X		
REACH Reg. 01-2119484862-27-****		
2,2'-(octadec-9-enylimino)bisethanol		
CAS 25307-17-9	$2,5 \leq x < 3$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 246-807-3		LD50 Oral: 1260 mg/kg
INDEX -		
REACH Reg. 01-2119510876-35-XXXX		
2,2'-(C16-18 (even numbered, C18 unsaturated)alkylimino)diethanol		
CAS 1218787-32-6	$1 \leq x < 2,5$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 620-540-6		LD50 Oral: 1350 mg/kg
INDEX -		
REACH Reg. 01-2119510877-33-XXXX		
(Z)-Octadec-9-enylamine, ethoxylated (>3 - 10 OE)		
CAS 26635-93-8	$0,25 \leq x < 0,5$	Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC		LD50 Oral: >300 mg/kg
INDEX -		
REACH Reg. Polimero		

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.

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

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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**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

HYDROCHLORIC ACID**General recommendations**

Accept that there is sufficient ventilation in the storage. Use the localized ventilation system. Make sure the containers are tightly closed, in a cool, dry place.

Avoid contact with skin and eyes, inhalation of vapours and mists. Do not use empty containers before they have been cleaned.

Before transferring, ensure that there are no incompatible residual materials in the containers. Contaminated clothing must be replaced before entering the dining areas.

Do not eat, drink or smoke during work

See also paragraph 8 for recommended protective equipment.

Recommendations on occupational hygiene. Handling according to good safety and hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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:

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
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	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	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 exposição durante o trabalho a agentes cancerígenos ou mutagénicos
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; 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

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HYDROCHLORIC ACID 31-33%**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	3	2	6 (C)	4 (C)	
VLA	ESP	7,6	5	15	10	
VLEP	FRA			7,6	5	
VLEP	ITA	8	5	15	10	
VLE	PRT	8	5	15	10	
WEL	GBR	2	1	8	5	
OEL	EU	8	5	15	10	
TLV-ACGIH				2,9 (C)	2 (C)	

Predicted no-effect concentration - PNEC

Normal value in fresh water		0,0036	mg/l
Normal value in marine water		0,0036	mg/l
Normal value of STP microorganisms		0,0036	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					15 mg/m3		8 mg/m3	

2,2'-(octadec-9-enylimino)bisethanol**Predicted no-effect concentration - PNEC**

Normal value in fresh water		0,00021	mg/l
Normal value in marine water		0,00002	mg/l
Normal value for fresh water sediment		1,692	mg/kg
Normal value for marine water sediment		0,1692	mg/kg
Normal value of STP microorganisms		1,5	mg/l
Normal value for the food chain (secondary poisoning)		2	mg/kg
Normal value for the terrestrial compartment		5	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	NPI	VND	VND	VND	VND	VND	0,214 mg/kg bw/d
Inhalation	NPI	NPI	NPI	0,745 mg/m3	NPI	NPI	NPI	2,122 mg/m3
Skin	NPI	NPI	NPI	0,214 mg/kg bw/d	NPI	NPI		0,3 mg/kg bw/d

2,2'-(C16-18 (even numbered, C18 unsaturated)alkylimino)diethanol**Predicted no-effect concentration - PNEC**

Normal value in fresh water		0,00021	mg/l
Normal value in marine water		0,000021	mg/l
Normal value for fresh water sediment		1,692	mg/kg
Normal value for marine water sediment		0,1692	mg/kg

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Normal value for water, intermittent release	VND							
Normal value of STP microorganisms	1,5	mg/l						
Normal value for the food chain (secondary poisoning)	2	mg/kg						
Normal value for the terrestrial compartment	5	mg/kg						
Normal value for the atmosphere	VND							
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	NPI	VND	0,214 mg/kg bw/d	VND	VND	VND	VND
Inhalation	NPI	NPI	NPI	0,745 mg/m3	NPI	NPI	NPI	2,112 mg/m3
Skin	NPI	NPI	NPI	0,214 mg/kg bw/d	NPI	NPI	NPI	0,3 mg/kg bw/d

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.

PROTECTION OF THE HANDS

Use chemical resistant gloves classified according to EN 374: gloves for protection against chemicals and micro-organisms.

Suitable material: NBR (nitrile-butadiene rubber) - Butyl rubber (butyl rubber) 0.5 mm, >8h.

NOTICE: The selection of specific gloves for a particular application and the duration of use at a workplace should also take into account all relevant factors at the workplace, such as, but not limited to, other chemicals that can be handled, Physical requirements (cutting / puncture protection, manual skill, thermal protection), possible reactions of the body to the material of gloves, as well as instructions /specifications provided by the manufacturer of gloves.

PROTECTION OF THE SKIN

Wear work clothes with long sleeves and safety footwear for professional use category II (ref. Regulation 2016/425 and EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear hermetic protective glasses (ref. EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product (e.g. use in unventilated environments, dust or aerosol formation) is exceeded, use respiratory protection with an acid vapour filter (B-type) or air visor in case of insufficient ventilation (ref. EN 14387).

(ref. standard EN 14387). If there are gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.) combined filters shall be provided.

The use of respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the threshold values considered. The protection offered by masks is however limited.

In case the substance considered is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. EN 137) or an external air intake respirator (ref. EN 138). For the correct choice of respiratory protection device, refer to EN 529.

MONITORING OF ENVIRONMENTAL EXPOSURE

Do not allow the substance to be introduced into waste water or streams. Contaminated waste water must be treated in an industrial or municipal waste

water treatment plant where primary and secondary treatments are available.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	dense liquid	
Colour	yellowish	
Odour	almond	
Melting point / freezing point	Not available	
Initial boiling point	Not determined	
Flammability	not flammable	
Lower explosive limit	Not available	Reason for missing data:<<Error>>Manca la traduzione (Z00-1001)
Upper explosive limit	Not available	Reason for missing data:
Flash point	> 90 °C	
Auto-ignition temperature	Not available	
pH	0	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Solubility		
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not determined	
Density and/or relative density	1,06 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	
VOC (volatile carbon)	0	
Explosive properties	Not available	Reason for missing data:
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.

10.2. Chemical stability

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

10.3. Possibility of dangerous reactions

Under normal conditions of use and storage, no hazardous reactions are foreseeable.

Reacts energetically with reducing agents, strong bases, organic materials and chlorides. Reaction with the most common metals can release oxygen

10.4. Conditions to be avoided

Direct heat sources and 10.3

10.5. Incompatible materials

Strong bases, amines, alcohols and metals

10.6. Dangerous decomposition products

Chlorine gas

SECTION 11. Toxicological information**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

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

HYDROCHLORIC ACID

LC50 (Inhalation vapours):	40989 ppm/1h Specie ratto - HCl gas (esposizione di 5 minuti)
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2,2'-(octadec-9-enylimino)bisethanol

LD50 (Oral):	1260 mg/kg OECD 401
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2,2'-(C16-18 (even numbered, C18 unsaturated)alkylimino)diethanol

LD50 (Dermal):	> 2000 mg/kg OECD 401
LD50 (Oral):	1350 mg/kg OECD 401

(Z)-Octadec-9-enylamine, ethoxylated (>3 - 10 OE)

LD50 (Oral):	> 300 mg/kg
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SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

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

May cause respiratory irritation

Target organs

Information not available

Route of exposure

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

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

HYDROCHLORIC ACID

LC50 - for Fish

20,5 mg/l/96h Lepomis macrochiruspH 3,25 normalizzato -Test sulla base di fondati principi scientifici

EC50 - for Crustacea

0,73 mg/l/48h daphnia magna - pH 4,7 normalizzato

EC50 - for Algae / Aquatic Plants

0,73 mg/l/72h alghe

2,2'-(octadec-9-enylimino)bisethanol

LC50 - for Fish

> 0,1 mg/l/96h OECD 203

EC50 - for Crustacea

> 0,01 mg/l/48h OECD 202

EC50 - for Algae / Aquatic Plants

> 0,01 mg/l/72h OECD 201

EC10 for Crustacea

> 0,001 mg/l/48h OECD 211

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EC10 for Algae / Aquatic Plants > 0,01 mg/l/72h OECD 201

2,2'-(C16-18 (even numbered, C18
unsaturated)alkylimino)diethanol
LC50 - for Fish

> 0,1 mg/l/96h OECD 203

EC50 - for Crustacea

> 0,01 mg/l/48h OECD 202

EC50 - for Algae / Aquatic Plants

> 0,01 mg/l/72h OECD 201

EC10 for Crustacea

> 0,001 mg/l/48h OECD 211

EC10 for Algae / Aquatic Plants

> 0,01 mg/l/72h OECD 201

(Z)-Octadec-9-enylamine, ethoxylated (>3 -
10 OE)

Chronic NOEC for Fish

> 0,001 mg/l

Chronic NOEC for Crustacea

> 0,001 mg/l

Chronic NOEC for Algae / Aquatic Plants

> 0,001 mg/l

12.2. Persistence and degradability

HYDROCHLORIC ACID

Solubility in water

> 10000 mg/l

Degradability: information not available

2,2'-(octadec-9-enylimino)bisethanol

Rapidly degradable

2,2'-(C16-18 (even numbered, C18
unsaturated)alkylimino)diethanol
Rapidly degradable

12.3. Bioaccumulative potential

Information not available

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 \geq 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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

HYDROCHLORIC ACID

HYDROCHLORIC ACID 31-33%

Dispose of waste in accordance with current legislation. The empty container must be treated in the same way as the product or, if possible, washed and recycled. Residues or wastes of hydrochloric acid, resulting from normal use, should be handled using appropriate personal and environmental precautions (see section 8)

Contaminated waste water must be treated in an industrial or municipal waste water treatment plant where primary and secondary treatments are available. Subject to any specific restrictions contained in the discharge authorisations, Hydrochloric acid residues may be used to regulate the pH in waste water treatment plants, taking care not to exceed the limit concentration at discharge for the Cl-ion. They can also be sent to the neutralization lines of the plant water, provided that the characteristics of the final discharge do not change.

Operate in all cases according to current local and national regulations

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, 1789
IATA:

14.2. UN proper shipping name

ADR / RID: HYDROCHLORIC ACID SOLUTION
IMDG: HYDROCHLORIC ACID SOLUTION
IATA: HYDROCHLORIC ACID SOLUTION

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8



14.4. Packing group

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: NO
 IMDG: NO
 IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: 520		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: E2

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

Product

Point 3

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 \geq 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 dangerous to health must be subject to health surveillance carried out in accordance with the provisions of art. 41 of D.Lgs. 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed irrelevant, in accordance with art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

HYDROCHLORIC ACID

2,2'-(ottadec-9-enilimino)bisetanolo

2,2'-(C16-18 (even numbers, C18 unsaturated) alkyl amine) diethanol

SECTION 16. Other information

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

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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
 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)
- 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.