essedielle
ENOLOGIALIMENTAZIONE
SISTEMA DI GESTIONE PER LA SICUREZZA ALIMENTARE
CERTIQUALITY
UNI EN ISO 22000:2018
OPERATORE CONTROLLATO S 1262
CERTIFICATO ICEA BIOLOGICO
essedielle srl
Loc. Macinini Fraz. Caldari
66026 Ortona (CH)
Num. REA CH-72915
P.IVA e CF: 00639090695
Codice Univoco SUBM70N
Capitale Sociale € 100.000,00

SAFETY DATA SHEET

MEMBRANS CLEAN 1

Revision No. 16, September 2025; Complies with Reg (EU) 2020/878

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE MANIFACTURING COMPANY

1.1 Product identification
Trade names and synonyms: Membrans Clean 1
Unique identification code UFI: E110-00R0-Q00J-M3E9

1.2 Relevant identified uses of the substance/mixture and uses not recommended:
Hydrogen peroxide-based sanitizer.

1.3 Information about the supplier of the safety data sheet
essedielle srl
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66026 ORTONA (CH)
ITALY
Phone: +39 (0) 85 9031315
Qualified persons responsible for the safety data sheet: laboratorio@essedielle.com

1.4 Emergency telephone number: essedielle srl +39 (0) 85 9031315 – 0039 3668134126
Poison Control Center
S.S. Annunziata Hospital – Chieti +39 0871 1551219

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (as amended and adapted). The product, therefore, requires a safety data sheet in accordance with the provisions of Regulation (EC) 1907/2006 as amended.
Any additional information regarding health and/or environmental hazards is provided in Sections 11 and 12 of this data sheet.

Classification and labeling of the formulation are carried out considering the nature and characteristics of the products of reactions created in the mixture and not just the components of the formula, in particular: sodium salt of phosphonic acid.

Classification and hazard statements:

Acute toxicity, category 4	**H302**	Harmful if ingested.
Serious eye injury, category 1	**H318**	Causes serious eye injury.
Skin irritation, category 2	**H315**	Causes skin irritation.

2.2 Label elements
Hazard labeling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Symbols:

Warning: danger

Hazard statements

H302	Harmful if ingested.
H318	Causes serious eye injury.
H315	Causes skin irritation.
H335	May irritate the respiratory tract.

Cautionary Advice

P264	Wash thoroughly with water after use.
P280	Wear gloves/protective clothing and protect eyes/face.
P301+P312	IN CASE OF INGESTION: contact a POISON CENTER / a physician / . . . / in case of feeling unwell.
P304+P340	IN CASE OF INHALATION: transport the casualty to fresh air and keep the casualty at rest in a position conducive to breathing.
Contains:	Potassium hydroxide Tetrasodium ethylenediaminetetraacetate

2.3 Other hazards
Based on available data, the product does not contain PBT or vPvB substances more than 0.1%.

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Information not relevant.

3.2 Mixtures

Substance	Concentration	Classification	CAS	EINECS	REACH
Potassium hydroxide	25-45%	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314	1310-58-3	215-185-3	01-2119487136- 33
Tetrasodium ethylenediaminetetraacetate	0-5%	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318	64-02-8	200-573-9	01-2119486762- 27

Note: upper value of range excluded.
The full text of the hazard statements (H) can be found in section 16 of the sheet.

4. FIRST AID MEASURES

4.1 Description first aid measures
In case of inhalation: call a doctor immediately. Take the subject to fresh air, away from the scene of the accident. If breathing ceases, give artificial respiration. Take appropriate precautions for the rescuer.
In case of skin contact: remove contaminated clothing. Shower immediately. Seek immediate medical attention.
In case of eye contact: remove any contact lenses. Wash immediately and thoroughly with water for at least 30 to 60 minutes, opening the eyelids wide. Seek immediate medical attention.

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In case of ingestion: Have as much water as possible to drink. Seek immediate medical attention. Do not induce vomiting unless expressly authorized by a physician.

4.2 Main symptoms and effects, both acute and delayed
For symptoms and effects due to contained substances, see Section 11.

4.3 Indication of any need for immediate medical attention and special treatment
Data not available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Carbon dioxide and chemical dust. For product leaks and spills that have not ignited, water spray can be used to disperse flammable vapors and protect people engaged in stopping the leak.
Extinguishing media that should not be used for safety reasons
None.

5.2 Special hazards from combustion products
The product, if involved in significant quantities in a fire, can greatly aggravate it. Avoid breathing in the products of combustion. NON-FLAMMABLE product.
High temperatures cause development of Oxygen which fuels combustion.

5.3 Recommendations for fire suppression operators
GENERAL INFORMATION
In the event of a fire, cool the containers immediately to avoid the danger of explosion (decomposition of the product, overpressure) and the development of substances potentially hazardous to health. Always wear full fire protection equipment. If possible without risks, move containers containing the product away from the fire.
EQUIPMENT
Normal firefighting clothing, such as an open-circuit self-contained compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
Stop the leak if there is no danger.
Wear appropriate protective equipment (including personal protective equipment in Section 8 of the MSDS) to prevent contamination of skin, eyes and personal clothing. These directions apply to both work crews and emergency responders.

6.2 Environmental precautions
Prevent the product from entering sewers, surface water, groundwater.

6.3 Methods and materials for containment and remediation
Vacuum the spilled product into suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remaining with inert absorbent material.
Provide sufficient aeration of the location affected by the spill. Check for any incompatibilities for container material in section 7. Disposal of the contaminated material should be carried out in accordance with Section 13.

6.4 Reference to other sections
See also paragraph 8 and 13.

7. HANDLING AND STORAGE

Caution: do not transfer to containers other than the original. Risk of exchange errors with food.

7.1 Precautions for safe handling

Ensure proper grounding for equipment and people. Avoid contact with eyes and skin. Do not inhale any dusts or vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersion of the product in the environment.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated place, away from sources of ignition. Keep containers tightly closed. Keep product in clearly labeled containers. Avoid overheating. Avoid violent shocks. Store containers away from any incompatible materials, checking Section 10.

7.3. Specific end uses

Data not available.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters

Regulatory references:

TLV-ACGIH ACGIH 2014

HYDROGEN PEROXIDE sol. Threshold limit value					
Type	State	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH				2 (C)	
Predicted concentration of no effect on the environment - PNEC					
TLV-ACGIH		1,4	1		

Health - Derived No Effect Level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Way of Exposure	Local acute	Acute systemic	Local chronic	Chronic systemic	Local acute	Acute systemic	Local chronic	Chronic systemic
Inhalation							1 mg/mc	VND

Legend:
(C) = CEILING
INALAB = Inhalable Fraction
RESPIR = Breathable Fraction
TORAC = Thoracic Fraction.
VND = identified hazard but no DNEL/PNEC available
NEA = no anticipated exposure
NPI = no identified hazard.

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8.2 Exposure controls
Given that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local exhaust ventilation. Personal protective equipment should bear CE marking attesting to its compliance with applicable standards.
Provide emergency shower with visocular tray.

Eye protection
It is recommended to wear a hooded visor or protective face shield combined with airtight goggles (ref. standard EN 166).

Skin protection
Wear long-sleeved work clothes and category III occupational safety footwear (ref. Directive 89/686/EEC and EN ISO 20344). Wash with soap and water after removing protective clothing.

Hand protection
Protect hands with category III work gloves (ref. standard EN 374).
For the final choice of work glove material, the following should be considered: compatibility, degradation, breakthrough time and permeation.
In the case of preparations, the resistance of work gloves to chemical agents must be verified before use because it cannot be predicted. Gloves have a wear time that depends on the duration and mode of use.

Respiratory protection
If the threshold value (e.g., TLV-TWA) of the substance or one or more of the substances in the product is exceeded, it is recommended that a mask with a type B filter be worn, the class (1, 2 or 3) of which should be chosen in relation to the limit concentration of use. (ref. standard EN 14387).
If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined type filters should be provided.
The use of respiratory protective means is necessary in case the technical measures taken are not sufficient to limit the worker`s exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.
In case the substance under consideration is odorless or its odor threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit self-contained compressed-air breathing apparatus (ref. standard EN 137) or an air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.

Thermal hazards
Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection regulations.

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Colorless liquid
Shape	Liquid
Color	Colorless
Odor	Pungent
Olfactory threshold	Not available
Ph value	19.9 (sol 1%)
CHANGE OF STATE	
Melting or freezing point/interval	Not available

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Initial boiling point/interval	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solids, gases)	Not available
Auto-ignition temperature	Not determined
Decomposition temperature	Not available
Explosive properties	Not determined
Lower flammability limits	Not determined
Upper flammability limits	Not determined
Vapor pressure	Not available
Density at 20 °C	Not determined
Relative density	1,34 kg/l
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Soluble
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

9.2 Other information
VOC (Directive 1999/13/EC): < 0.01 % - 0.02 g/liter.
VOC (volatile carbon): 0

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
There is no particular danger of reaction with other substances under normal conditions of use.
POTASSIUM HYDROXIDE: Potential exothermic hazard. May be corrosive to metals.

10.2 Chemical stability
The product is stable under normal conditions of use and storage.
POTASSIUM HYDROXIDE: stable under recommended storage conditions.

10.3 Possibility of dangerous reactions
Under normal use and storage conditions, no hazardous reactions are to be expected.
POTASSIUM HYDROXIDE: releases hydrogen in reaction with metals. Exothermic reaction with strong acids. Reacts violently with water.

10.4 Conditions to be avoided
None. However, adhere to the usual cautions against chemicals. POTASSIUM HYDROXIDE: Unstable when exposed to air. Freezing.

10.5 Incompatible materials
EDTA 4Na: Can corrode light metals, in the presence of water and moisture.
POTASSIUM HYDROXIDE: Keep separate from: heat sources, oxidizing agents, acids, highly flammable materials,
halogens, organic materials. Keep away from: lead, aluminum, copper, tin, zinc, bronze.

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10.6 Hazardous decomposition products
POTASSIUM HYDROXIDE: Absorbs atmospheric CO2. HYDROGEN: Reacts with (some) metals and their compounds; release of gas that is highly flammable.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information regarding the mixture
In the absence of experimental toxicological data on the product itself, the possible health hazards of the product have been assessed based on the properties of the contained substances, according to the criteria provided in the relevant classification regulations. Therefore, consider the concentration of the individual hazardous substances possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product. The product is corrosive and causes severe burns and blistering on the skin, which may appear even after exposure. Burns cause severe burning and pain. On contact with the eyes, it causes severe injury and may cause opacity of the cornea, injury to the iris, irreversible discoloration of the eye. Vapors and/or dusts are caustic to the respiratory system and can cause pulmonary edema, symptoms of which become manifest sometimes only after a few hours. Symptoms of exposure may include burning sensation, coughing, asthmatic breathing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion can cause burns of the mouth, throat and esophagus; vomiting, diarrhea, edema, swelling of the larynx and subsequent choking. Perforation of the gastrointestinal tract may also occur.
The product causes severe eye injury and may cause corneal opacity, iris injury, irreversible staining of the eye.

TETRASODIO ETHYLENEDIAMMINOTETRACETATO
LD50 (Oral).> 2000 mg/kg rat

POTASSIUM HYDROXYDE
LD50 (Oral).333 mg/kg Rat

11.2.1 Endocrine-disrupting properties
Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0.1%.

12. ECOLOGICAL INFORMATION

Use according to good working practices, avoiding dispersal of the product into the environment. Notify the appropriate authorities if the product has reached waterways or sewers or contaminated soil or vegetation.

12.1 Toxicity
TETRASODIUM ETHYLENEDIAMINETETRAACETATE.
LC50 - Fish: > 100 mg/l/96h Lepomis m. POTASSIUM HYDROXIDE
LC50 - Fish: > 80 mg/l/96h

12.2 Persistence and degradability
POTASSIUM HYDROXIDE Solubility in water: > 10000 mg/l
Biodegradability: Data Not Available.

12.3 Bioaccumulation potential
N.A.

12.4 Mobility in soil
N.A.

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12.5 Results of PBT and vPvB assessment vPvB substances
Based on available data, the product does not contain PBT or vPvB substances in excess of 0.1%.

12.6 Other adverse effects
N.A.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Reuse if possible. Product residues are to be considered special hazardous waste. The hazardousness of wastes that partially contain this product must be evaluated according to current legislative requirements.
Disposal should be entrusted to a licensed waste management company in accordance with national and, if applicable, local regulations.
Waste transportation may be subject to ADR.
CONTAMINATED PACKAGING
Contaminated packaging should be sent for recovery or disposal in accordance with national waste management regulations.

14. TRANSPORTATION INFORMATION

14.1 UN Number
ADR/RID, IMDG, IATA: 1719

14.2 UN proper shipping name
ADR / RID: Caustic Alkaline Liquid, N.O.S. (Potassium Hydroxide)
IMDG: Caustic Alkali Liquid, N.O.S.
IATA: Caustic Alkali Liquid, N.O.S.

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, IATA: II

14.5 Environmental hazards
ADR/RID: no
For air transport, environmental hazard marking is only required for UN Nos. 3077 and 3082.

14.6 Special precautions for users

ADR / RID:	HIN - Kemler: 58	Limited quantities 1 L
	Special disposition: -	
IMDG:	EMS: F-H, S-Q	Limited quantities 1 L
IATA:	Cargo:	Max quantity: -
	Pass.:	Max quantity: -
	Particular instructions:	-

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14.7 Transport of bulk according to MARPOL Annex II and the IBC Code
Not applicable information.

15. REGULATORY INFORMATION

Composition (648/04/EC): inf. 5% EDTA.

15.1 Health, safety and environmental regulations and legislation specific to the substance or mixture
Seveso category: none.
Restrictions on the product or contained substances according to Annex XVII Regulation (EC) 1907/2006.
Product:Item 3.
Substances on Candidate List (Art. 59 REACH): none.
Substances subject to authorization (Annex XIV REACH): none.
Substances subject to export notification requirement Reg. (EC) 649/2012: none.
Substances subject to the Rotterdam Convention: none.
Substances subject to the Stockholm Convention: none.
Health Controls.
Workers exposed to this chemical agent hazardous to health must undergo health surveillance carried out in accordance with the provisions of Art. 41 of Legislative Decree 81 of April 9, 2008 unless the risk to the safety and health of the worker has been assessed as insignificant, in accordance with Art. 224, paragraph 2.
Legislative Decree 152/2006, as amended.
Emissions:
TAB. C Class 3 00.01 %
WATER 57.20 %

15.2 Chemical safety assessment
A chemical safety assessment has not been prepared for the mixture and the substances in it.

16. OTHER INFORMATION

Text of the hazard statements (H) cited in sections 2-3 of the sheet:

Ox. Liq. 1	Oxidizing liquid, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Severe eye injury, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H271	May cause a fire or explosion; very oxidizing.
H302	Harmful if ingested.
H332	Harmful if inhaled.
H314	Causes severe skin burns and serious eye injury.
H318	Causes serious eye injury.
H315	Causes skin irritation.
H335	May irritate the respiratory tract.
H412	Harmful to aquatic organisms with long-lasting effects.

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LEGEND:
- ADR: European Agreement for the Transport of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service number
- CE50: Concentration giving effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European repository of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally harmonized system for the classification and labeling of chemicals
- IATA DGR: Dangerous Goods Regulations of the International Air Transport Association
- IC50: 50% immobilization concentration of the test population
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the International Carriage of Dangerous Goods by Rail
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any time of work exposure.
- TWA STEL: Short-term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EU) 1907/2006 of the European Parliament (REACH).
2. Regulation (EU) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI 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
- ECHA Agency Website

Note to user:
The information in this sheet is based on the knowledge available to us as of the date of the latest version. The user should satisfy himself of the suitability and completeness of the information in relation to the specific use of the product.
This document should not be construed as a guarantee of any specific properties of the product.

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Since the use of the product does not fall under our direct control, it is the user's obligation to observe the applicable health and safety laws and regulations on his or her own responsibility. We assume no responsibility for improper use.
Provide adequate training for personnel involved in the use of chemicals.

Changes from previous revision
Changes have been made to the following sections: 02/12