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

COMPACID ML

Revision No. 5, 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 name: Compacid ML
Chemical name and synonyms: lactic acid, malic acid solution
Unique Formula Identifier (UFI): 0500-X0U1-N00K-YPKN

1.2 Relevant identified uses of the substance/mixture and uses not recommended
Food additive, for professional use only.

1.3 Information about the supplier of the safety data sheet
essedielle srl
S.P. 538 km. 6,950 - CALDARI
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 not considered hazardous according to EC Regulation 1272/2008 (CLP).
Physicochemical effects harmful to human health and the environment: no other hazards

2.2 Label elements
Pictograms

CORROSIVO

Warning codes:
GHS05
Hazard class and category codes: Skin Irrit. 2, Eye Dam. 1, STOT SE 3
Hazard indication codes:
H315 Causes skin irritation.
H318 Causes severe eye injury
H335 May irritate the respiratory tract.
Product, if inhaled, causes respiratory tract irritation; if brought into contact with skin, causes considerable inflammation with erythema, scabs or edema. The product, if brought into contact with the eyes, causes serious eye injury, such as opacification of the cornea or injury to the iris.
Cautionary advice:
Prevention
P280 Wear protective gloves/protective clothing/protect eyes/face.
Reaction
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Transport the casualty to fresh air and keep at rest in a position conducive to breathing.

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P305+P351+P338 IF IN EYE CONTACT: rinse thoroughly for several minutes. Remove any contact lenses if it is convenient to do so. Continue to rinse.
P310 Contact a POISON CENTER or doctor immediately.

2.3 Other hazards
vPvB Substances: none - PBT Substances: none
Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0.1%

Other hazards
No other hazards.
The use of this chemical agent entails the obligation of "Risk Assessment" by the employer according to the provisions of Legislative Decree No. 81 of April 9, 2008, as amended. Workers exposed to this chemical agent do not have to undergo health surveillance if the results of the risk assessment show that, in relation to the type and quantity of the hazardous chemical agent and the manner and frequency of exposure to this agent, there is only a "Moderate Risk" to the health and safety of workers and that the measures provided in the same Dlgs. are sufficient to reduce the risk.

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Identification of the substance
Hazardous components under EC Regulation 1272/2008 (CLP) and their classification: none

3.2 Mixtures

Substance	Concentration	CAS	EINECS	REACH	Classification
Lactic acid	10 – 30 %	79-33-4	4 201-196-2	01-2119474 164-39-XXX X	Skin Irrit. 2, H315; Eye Dam. 1, H318
Malic acid	10 – 30 %	97-67-6	202-601-5		Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

4. FIRST AID MEASURES

4.1 Description first aid measures
In case of inhalation: remove the injured person to fresh air. If breathing is difficult give oxygen or practice artificial respiration.
In case of skin contact: remove contaminated clothing immediately. Instantly wash areas of the body that have come in contact with the toxicant, even if only suspected, with plenty of running water and soap if necessary. Wash the body completely (shower or bath).
In case of eye contact: wash immediately with running water with open eyelids for at least 15 minutes. Consult an ophthalmologist. Protect the uninjured eye.
In case of ingestion: induce vomiting. Seek immediate medical attention, showing the safety data sheet. Activated charcoal in water or medicinal mineral vaseline oil can be administered.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Water. Carbon dioxide (CO2).

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Extinguishing media that should not be used for safety reasons
None.

5.2 Special hazards from combustion products
Do not inhale the gases produced by the explosion and combustion.

5.3 Recommendations for fire suppression operators
Employ appropriate respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety standpoint, move undamaged containers from the immediate danger area.

5.4 Other information
Water used in firefighting that is contaminated with the product should be disposed of in accordance with local regulations.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
Wear personal protective equipment. Move people to a safe place. Refer to the protective measures set out in section 7 and 8.

6.2 Environmental precautions
Prevent penetration into the soil/subsoil. Prevent runoff into surface water or sewage system.

6.3 Methods and materials for containment and remediation
Small quantities: wash with plenty of water.

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid skin and eye contact, inhalation of vapors and mists.
Do not eat or drink while working.
Also refer to section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials: none.
See also section 10 below.
Indication for premises: adequately ventilated premises.

7.3 Specific end uses
None.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
Substance:
L- Malic Acid
DNEL Systemic effects Long-term Workers Inhalation = 36.6 (mg/m3)
Citric acid
PNEC

Freshwater = 0.44 (mg/l)
Sediment Fresh water = 34.6 (mg/kg/Sediment)
Seawater = 0.044 (mg/l)
Sediment
Seawater = 3.46 (mg/kg/Sediment) STP = 1000 (mg/l) Soil = 33.1 (mg/kg Soil)

8.2 Exposure controls

When handling the pure product, wear skin protective clothing (general work dress, S3-EN ISO 20345 safety shoes) or other protective equipment as directed by the RSPP.

Eye protection
Use safety glasses (EN 166) when handling the pure product. However, operate according to good working practices.

Skin protection
No special precautions are required for normal use.

Hand protection
When handling the pure product, use protective gloves (EN 374-1/EN374-2/EN374-other protective equipment as directed by the RSPP.

Respiratory protection
Not required for normal use. During manual operations in case of inadequate ventilation, use mask with filters for inorganic gases and vapors - Brown, Class 3, A (EN 143) unless otherwise ordered by the RSPP and/or environmental hygiene survey assessments.

Thermal hazards
None

Environmental exposure controls
None

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Colorless liquid
Shape	Liquid
Color	Colorless
Odor	None
Olfactory threshold	None
Ph value	0.45
CHANGE OF STATE	
Melting point/interval	Not determined
Boiling point/interval	Not determined
Flash point	Not determined
Flammability (solids, gases)	Not determined
Auto-ignition temperature	Not determined

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Decomposition temperature	Not determined
Explosive properties	Non explosive
Lower flammability limits	Not determined
Upper flammability limits	Not determined
Vapor pressure at 20°C	Not determined
Density at 20°C	1.23 g/ml
Relative density	Not determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Complete
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not determined
Dynamic Viscosity at 20 °C	Not determined
Kinematic Viscosity	Not determined

9.2 Other information

Molecular mass	Not determined
Conductivity	Not determined
Liposolubility	Not determined
Particular properties groups of substances	
Other Useful Information	None

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
Under normal conditions, it is completely stable to air and light. It is neither hygroscopic nor efflorescent.

10.2 Chemical stability
Under normal conditions, it is completely stable to air and light. It is neither hygroscopic nor efflorescent.

10.3 Possibility of dangerous reactions
In an aqueous solution mixed with CARBONATES, it produces abundant foam by releasing CARBON ANHYDRIDE (CO2).

10.4 Conditions to be avoided
Do not bring the product to temperatures above 200 °C.

10.5 Incompatible materials
None.

10.6 Hazardous decomposition products
None.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008
Toxicological information regarding the mixture: the product is non-toxic
Unless otherwise specified, the data required by Regulation 453/2010/EC below are intended to be undetermined:
ATE (mix) oral = 51,020.4 mg/kg
ATE (mix) dermal = ∞
ATE (mix) inhal = ∞

(a) acute toxicity:
CITRIC ACID:
Ingestion - LD50 rat (mg/kg/24h bw): 5400
Skin contact - LC50 rat/rabbit (mg/kg/24h bw): n.d.
Inhalation - LD50 rat (mg/l/4h): n.d.
L- MALIC ACID:
Ingestion - LD50 rat (mg/kg/24h bw): n.d.
Skin contact - LC50 rat/rabbit (mg/kg/24h bw): n.d.
Inhalation - LD50 rat (mg/l/4h): n.d.
LACTIC ACID:
Ingestion - LD50 rat (mg/kg/24h bw): >5000
Skin contact - LC50 rat/rabbit (mg/kg/24h bw): >2000
Inhalation - LD50 rat (mg/l/4h): >7.94

(b) Skin corrosion/irritation:
Citric acid: non corrosive/irritant
L Malic Acid: non-corrosive/irritant
Lactic Acid: non-corrosive/irritant

(c) severe eye injury/irritation:
Citric acid: non-corrosive
L Malic Acid: non-corrosive/irritant
Lactic Acid: non-corrosive/irritant

(d) respiratory tract or skin sensitization:
Citric acid: not available
L Malic Acid: non-corrosive/ irritant
Lactic Acid: non-corrosive/ irritant

(e) germ cell mutagenicity:
Citric acid: non-mutagenic
L Malic Acid: non-mutagenic
Lactic Acid: non-mutagenic

(f) carcinogenicity:
Citric acid: non-carcinogenic
L Malic Acid: non-carcinogenic
Lactic Acid: non-carcinogenic

(g) reproductive toxicity:
Citric acid: nontoxic to reproduction
L Malic Acid: not toxic to reproduction
Lactic Acid: not toxic to reproduction

(h) specific target organ toxicity (STOT) single exposure:

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Citric acid: not available
LOAEL: 8,000 mg/kg
Mode of application: Oral Exposure time: 10 doses: 2, 4, 8, 16 g/kg bw/day
L Malic Acid: not available
Lactic Acid: not available

(i) Aspiration hazard:
Citric acid: not available
L Malic Acid: not available
Lactic Acid: not available

Health hazards
Eye contact: an in vitro test of the registered substance was performed on eye irritation according to OECD 437: Bovine Corneal Opacity and Test Method for Identifying Corrosive Permeability and Severe Eye Irritants. This study is considered as key study and can be classified as Klimisch Code 1: unrestricted reliability. Ithe test results showed that tartaric acid is strongly irritating.
Skin contact: a registered substance test was performed on in vivo skin irritation/corrosion according to OECD 404: acute skin irritation/corrosion in GLP laboratory certified. The study can be classified as Klimisch code 1: unrestricted reliability. The results showed that non-toxic effect was found, and two other in vitro studies also support this result. Thus, the irritant effect of tartaric acid can be concluded as non-irritant. Repeated and prolonged direct contact can degrease and irritate the skin causing dermatitis in some cases.
Ingestion: ingested product may cause irritation of the mucous membranes of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.
Inhalation: according to the Official Journal of the European Union 1272/2008 (CLP) of December 16, 2008, tartaric acid is not classified in the acute toxicity hazard categories. But it should be noted that tartaric acid is classified in category 5 acute oral toxicity in the GHS classification system.
Carcinogenicity: no data available.
Reproductive toxicity: in accordance with the safety history, toxicokinetic properties and toxicity profiles, the reproductive toxicity risk could reasonably be considered very low from the use of tartaric acid. Due to consideration of animal welfare, no new two-generation trial study should be performed.
STOT repeated exposure No evidence of an adverse effect was observed in the dose of 3.1 g/kg body weight/day and 4.1 g/kg body weight/day L (+)-tartaric for male and female rats, respectively, correspond to 2.46 g/kg body weight/day and 3.2 g/kg body weight/day L (+)-tartaric for male and female rats, respectively. aspiration risk: No classification
Toxicokinetics: the absorption and excretion of L (+) -tartaric acid is rapid. The main distribution of tartaric acid after oral administration is in the gastrointestinal tract, liver, kidney and bone in rats. Part of the substance is metabolized by intestinal flora, part is metabolized by tissue enzyme, and important is unchanged excretion with urine. Absorption rates for DL-tartrate by oral administration in rat and human are 81% and 18%, respectively.
No potential for bioaccumulation. Delayed effects: not expected. LD50 Oral (rat) (mg/kg body weight) = 2000 LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity
a) Aquatic toxicity (acute)
CITRIC ACID
Acute toxicity - fish LC50 (mg/l/96h): 1516
Acute toxicity - crustaceans EC50 (mg/l/48h): 160

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Acute toxicity algae ErC50 (mg/l/72-96h): n.d.
L- MALIC ACID:
Acute toxicity - fish LC50 (mg/l/96h): n.d.
Acute toxicity - crustaceans EC50 (mg/l/48h): n.d.
Acute toxicity algae ErC50 (mg/l/72-96h): n.d.

LACTIC ACID:
Acute toxicity - fish LC50 (mg/l/96h): 195-320
Acute toxicity - crustaceans EC50 (mg/l/48h): 130-250
Acute toxicity algae ErC50 (mg/l/72-96h): >2800
Use according to good working practices, avoiding spillage into the environment.

12.2 Persistence and degradability
Not available for the components.

12.3 Bioaccumulation potential
Not available for the components.

12.4 Mobility in soil
Not available for the components.

12.5 Results of PBT and vPvB assessment
vPvB substances: none - PBT substances: none

12.6 Other adverse effects
None.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Inorganic product not to be disposed of through biological treatment systems. Dispose of residues in compliance with current regulations through authorized disposers.
Recover if possible. Operate in accordance with current local and national regulations.
CONTAMINATED PACKAGING
Empty as best as possible by fully opening them. Dispose of in accordance with the constituent material.

13.2 HP Phrases
None

14. TRANSPORTATION INFORMATION

14.1 UN Number
Non-dangerous good within the meaning of transport regulations.

14.2 UN proper shipping name
N.A.

14.3 Transport hazard class(es)
N.A.

14.4 Packing group
N.A.

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14.5 Environmental hazards Marine pollutant
No

14.6 Special precautions for users
N.A.

14.7 Transport of bulk according to MARPOL Annex II and the IBC Code
N.A.

15. REGULATORY INFORMATION

15.1 Health, safety and environmental regulations and legislation specific to the substance or mixture
Legislative Decree 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances)
Legislative Decree 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations)
D.M. Labor 26/02/2004 (Occupational exposure limits)
Ministerial Decree 03/04/2007 (Implementation of Directive No. 2006/8/EC)
Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1272/2008 (CLP)
Regulation (EC) No. 790/2009 (ATP 1 CLP)
Regulation (EU) No 453/2010 (Annex I)
Regulation (EU) No 286/2011 (ATP 2 CLP)
Restrictions on the product or substances contained under Annex XVII of the
Regulation (EC) 1907/2006 (REACH) and subsequent adaptations: None
Where applicable, please refer to the following regulations:
Ministerial Circulars 46 and 61 (Aromatic Amines).
Legislative Decree No. 238 of September 21, 2005 (Seveso Ter Directive).
EC Regulation No. 648/2004 (Detergents).
Royal Decree January 9, 1927, no. 147 (Toxic Gases)
D.L. 3/4/2006 n. 152 Environmental regulations.

15.2 Chemical safety assessment
No

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.

Main bibliographic sources
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition -Van Nostrand Reinold
CCNL - Annex 1
National Institute of Health - National Inventory of Chemical Substances.

The information contained herein is based on our knowledge as of the date above.
It refers only to the product indicated and does not constitute a guarantee of any particular quality.
The user is responsible for ensuring the suitability and completeness of this information in relation to the specific use to be made of it.

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LEGEND SYMBOLS

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Service of the Chemical Abstract (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived no-effect level.
EINECS: European inventory of existing chemicals on the market.
GefStoffVO: Ordinance on hazardous substances, Germany.
GHS: General harmonized system of classification and labeling of chemicals.
IATA: International Air Transport Association.
IATA-DGR: Regulations for the transportation of dangerous goods of the "International Air Transport Association"(IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"(ICAO).
IMDG: International Maritime Dangerous Goods Code.
INCI: International nomenclature of cosmetic ingredients.
KSt: Coefficient of explosion.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
N.A.: Not Available
PNEC: Predicted no-effect concentration.
RID: Regulations concerning the international transport of dangerous goods by rail.
STE: Short-term exposure.
STEL: Short-term exposure limit.
STOT: Specific target organ toxicity.
TLV: Threshold limit value.
TWATLV: Threshold limit value for an 8-hour weighted average exposure per day. (ACGIH standard).
WGK: German water hazard class.