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

GREENFIX

Revision No. 4, November 2023; Complies with Reg (EU) 2020/878

INDEX

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE MANIFACTURING COMPANY 2

2. HAZARD IDENTIFICATION 2

3. COMPOSITION/INGREDIENT INFORMATION 2

4. FIRST AID MEASURES 3

5. FIRE-FIGHTING MEASURES 3

6. MEASURES IN CASE OF ACCIDENTAL RELEASE 3

7. HANDLING AND STORAGE 4

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION 4

9. PHISICAL AND CHEMICAL PROPERTIES 5

10. STABILITY AND RESPONSIVENESS 6

11. TOXICOLOGICAL INFORMATION 6

12. ECOLOGICAL INFORMATION 7

13. DISPOSAL CONSIDERATIONS 8

14. TRANSPORTATION INFORMATION 8

15. REGULATORY INFORMATION 8

16. OTHER INFORMATION 9

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

1.1 Product identification
Trade name: Greenfix
Chemical name and synonyms: Kordofan arabic gum from organic farming
Operator subject to ICEA control IT BIO 006 S1262 Op. code: ESSEDIELLE SRL issued pursuant to Art. 29, 1 of EC Reg 834/07
LOCALITA' MACININI - VILLA CALDARI - 66026 ORTONA (CH) - ITALY 006390906

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
Symbols: none
Indications of danger: none
Precautionary statements: none
Special provisions: none
Special provisions according to Annex XVII of REACH and subsequent adaptations: none

2.3 Other hazards
Contains:
ARABIC GUM, POTASSIUM BISULPHITE - (Sulphur dioxide and sulphites in concentrations exceeding 10 mg/kg or 10 mg/l SO_2 in accordance with EEC/EU Reg. 25/10/2011 No. 1169 - Annex II and subsequent supplements and amendments)
For professional use only. For restricted food use: oenological use
The substance/mixture does NOT contain any PBT/vPvB substances according to Regulation (EC) 1907/2006, Annex XIII No information on other hazards.

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Identification of the substance: Kordofan arabic gum from organic farming
Hazardous components under EC Regulation 1272/2008 (CLP) and their classification: none

3.2 Mixture

Substance	Concentration	Classification	CAS	EINECS	Index	REACh
Organic Kordofan Arabic Gum	20 % P/P		9000-01-5	232-519-5		
Sulphur dioxide	0.3 – 0.5 % P/P	Eye Irrit. 2, H319	7773-03-7	231-870-1		

4. FIRST AID MEASURES

4.1 Description first aid measures

In case of inhalation: remove the casualty to fresh air. If breathing is difficult give oxygen or practice artificial respiration.
In case of skin contact: remove contaminated clothing immediately. Immediately 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.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means

Suitable extinguishing means
Water. Carbon dioxide (CO2).
Extinguishing media that should not be used for safety reasons
None in particular.

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

Use appropriate breathing equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge into the sewage system. If safe to do so, 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

6.1.1 For non-direct responders: Move away from the area surrounding the spill or release. Do not smoke. Wear protective gloves and clothing.

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6.1.2 For first responders: Eliminate all naked flames and possible ignition sources. Do not smoke. Provide adequate ventilation.
Evacuate the danger area and, if necessary, consult an expert.

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
6.3.1 Containment: collect the product for re-use, if possible, or for disposal. Absorb with inert material if possible. Prevent it from entering the sewage system.
6.3.2 For cleaning: after collection, wash affected area and materials with water.
6.3.3 Other information: none in particular.

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours 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
Food industries: handle with care. Store in a clean, dry and ventilated environment, away from heat sources and direct sunlight. Keep container tightly closed.
Industrial uses: handle with extreme care. Store in a well-ventilated place and away from heat sources.
Professional uses: handle with caution.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
DNEL exposure limit values: data not available.
PNEC exposure limit values: data not available.
Related to contained substances: ARABIC GUM: Exposure limits: Dust 6mg/m^3 C: (Cancer) POTASSIUM BIS SULPHITE: TLV STEL: 0.25 ppm (SO2)

8.2 Exposure controls

Appropriate engineering controls:
Food industries: no specific control provided (act according to correct practice and specific regulations provided for the type of associated risk)
Industrial uses: no specific control provided (act according to correct practice and specific regulations provided for the type of associated risk)

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Professional uses: no specific control provided (act according to correct practice and specific regulations provided for the associated type of risk)

Individual protection measures
Eye protection
When handling the pure product, use safety glasses (caged goggles) (EN 166).

Skin protection
Wear clothing to fully protect the skin when handling the pure product.

Hand protection
Use chemical-resistant protective gloves (EN 374-1/EN374-2/EN374-3) when handling the pure product.

Respiratory protection
Not necessary when adequate ventilation is provided. Alternatively, use protective mask.

Thermal hazards
None.

Environmental exposure controls
Related to the substances contained:
ARABIC GUM:
Hand protection: not required
Eye protection: not necessary
Skin protection: not necessary
POTASSIUM BISULFITE:
Eye protection: use closed safety visors, do not use eye lenses.
Skin protection: wear clothing that provides total skin protection, e.g., cotton, rubber,PVC or viton.
Hand protection: use protective gloves that provide full protection, e.g., PVC, neoprene or rubber.
Respiratory protection: where ventilation is insufficient or exposure is prolonged employ a respiratory protective device, e.g., CEN/FFP-2(S) or CEN/FFP-3(S).

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	White liquid
Shape	Liquid
Color	White
Odor	Characteristic
Olfactory threshold	None
Ph value	2.56 sol 5%
CHANGE OF STATE	
Melting point/interval	Not determined
Boiling point/interval	Not determined
Flash point	Non-flammable
Flammability (solids, gases)	Non-flammable
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Explosive properties	Non-explosive
Lower flammability limits	Not determined
Upper flammability limits	Not determined

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Vapor pressure at 20°C	Not determined
Density at 20°C	1.12 g/ml
Relative density	Not determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Completely miscible
Specific rotation	+ 27.5
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.

10.2 Chemical stability
No hazardous reaction if handled and stored according to regulations.

10.3 Possibility of dangerous reactions
Stable under normal conditions.

10.4 Conditions to be avoided
Stable under normal conditions.

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
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 = ∞
ATE (mix) dermal = ∞

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ATE (mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.
(b) corrosion / skin irritation: based on available data the classification criteria are not met.
(c) severe eye injury/irritation: based on available data the classification criteria are not met.
(d) respiratory or skin sensitization: based on available data the classification criteria are not met.
(e) germ cell mutagenicity: based on available data the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) reproductive toxicity: based on available data the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met.
(j) Aspiration hazard: based on available data the classification criteria are not met.

Related to the substances contained:
ARABIC GUM:
Acute toxicity LD50 (oral, rat): > 5000mg/kg

Health hazards:
Eye contact: accidental contact of the product with the eyes may cause irritation.
Skin contact: the product is not an irritant. Repeated and prolonged direct contact may 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 tract resulting in abnormal digestive symptoms and intestinal disorders.
Inhalation: prolonged exposures to vapors or mists of the product may cause respiratory tract irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
(a) Acute aquatic toxicity
Use according to good working practices, avoiding dispersing the product into the environment.

12.2 Persistence and degradability
Related to contained substances:
GUM ARABIC: completely biodegradable
POTASSIUM BISOLPHITE: none

12.3 Bioaccumulation potential
Related to contained substances:
GUM ARABIC: completely biodegradable
POTASSIUM BISOLPHITE: none

12.4 Mobility in soil
Related to contained substances:
GUM ARABIC: completely biodegradable
POTASSIUM BISOLPHITE: none

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

12.6 Other adverse effects
None.

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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
Not included in the scope of dangerous goods transport regulations: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN proper shipping name
N.A.

14.3 Transport hazard class(es)
N.A.

14.4 Packing group
N.A.

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
Bulk transport is not provided.

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

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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.

This document was prepared by a technician who is competent in SDS and has received appropriate training according to the current regulations Reg. CE 830/2015.

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.

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.

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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.