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

POTASSIUM METABISULFITE

Revision No. 5, October 2023; Complies with Reg (EU) 2020/878

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

1.1 Product identification
Chemical name: Potassium metabisulfite
Trade names and synonyms: Potassium metabisulfite E224
CAS Number: 16731-55-8
EC Number: 240-795-3
REACH Number: 01-2119537422-45-XXXX

1.2 Relevant identified uses of the substance/mixture and uses not recommended:
Food additive E224, 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
Criteria EC Regulation 1272/2008 (CLP): Hazard, Eye Dam. 1, Causes serious eye injury.
EUH031 Contact with acids liberates toxic gas.
Physicochemical effects harmful to human health and the environment: no other hazards

2.2 Label elements
Symbols:

Warning
Hazard Statements:
H318 Causes severe eye injury.
Cautionary Statements:
P280 Protect eyes/face: wear goggles with side protection.
P305+P351+P338 IF IN EYES: rinse thoroughly for several minutes. Remove any contact lenses if it is convenient to do so. Continue to rinse.
P310 Contact a doctor immediately.
Special Provisions:
EUH031 In contact with acids it releases toxic gas.
Contains: POTASSIUM METABISULPHITE
Special provisions according to Annex XVII of REACH and subsequent adaptations: nonee

2.3 Other hazards vPvB Substances: none - PBT Substances: none

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Trade names and synonyms: Potassium metabisulfite E224

Substance	Concentration	Classification	CAS	EINECS	REACH
Potassium metabisulfite	100 %	3.3/1 Eye Dam. 1 H318 EUH 031	16731-55-8	240-795-3	01-2119537422-45-XXXX

3.2 Mixtures
No mixture, pure product.

4. FIRST AID MEASURES

4.1 Description first aid measures
Good industrial hygiene rules are recommended in any case.
In case of inhalation: move 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. 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 Main symptoms and effects, both acute and delayed
None

4.3 Indication of any need for immediate medical attention and special treatment
In case of accident or malaise seek immediate medical attention (show directions for use or safety data sheet if possible). Treatment: none.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
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 firefighters
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 by the product should be disposed of in accordance with local regulations.

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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. Retain contaminated wash water and dispose of it. In case of leakage or penetration into waterways, soil or sewage system, inform the responsible authorities. Suitable material for collection: absorbent material, organic, sand

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
Do not breathe in the dust. See also section 8 below. Do not use empty containers before they have been cleaned. Make sure there are no remaining incompatible materials in the containers before transfer operations. Contaminated clothing should be replaced before entering dining areas. 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
The product is afraid of moisture. Store in a dry environment. Keep away from food, drink and feed.
Incompatible materials: keep away from acids. Keep away from oxidizing agents
Indication for premises: properly ventilated premises.

7.3 Specific end uses
None in particular

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
ACGIH - STEL: 0.25 ppm - Note: (SO2)
UE - TWA: 0.5 ppm - STEL: 1 ppm - Note: (SO2)

DNEL exposure limit values
Industrial worker: 263 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Consumer: 78 mg/m3 - Exposure: Human inhalation - Frequency: Long term, local effects
Consumer: 10 mg/kg - Exposure: Oral Human - Frequency: Long term, local effects

PNEC exposure limit values
Target: Freshwater - Value: 1.17 mg/l
Target: Seawater - Value: 0.12 mg/l
Target: Microorganisms in wastewater treatment - Value: 88.1 mg/l

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8.2 Exposure controls

Eye protection
Glasses with side protection. Operate according to good work practices in any case.

Skin protection
Wear clothing that provides full protection for the skin, e.g., cotton, rubber, PVC or viton**.**

Hand protection
Use protective gloves that provide full protection. Suitable material: UNI EN 420/UNI EN 374

Respiratory protection
Dust filter device (DIN EN 143).

Thermal hazards
None

Environmental exposure controls
None

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	White granulates
Shape	Granular
Color	White
Odor	Pungent
Olfactory threshold	Not determined
Ph value sol 5%	3.5 – 4.5
CHANGE OF STATE	
Melting point/interval	150 °C
Boiling point/interval	150 °C
Flash point	Not determined
Flammability (solids, gases)	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Explosive properties	Not determined
Lower flammability limits	Greater than 150 °C
Upper flammability limits	Not determined
Vapor pressure at 20°C	Not determined
Density at 20°C	Not determined
Relative density	1.20 Kg /dm^3
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water:	At 20 °C: 456 g/1000ml
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not determined
Dynamic Viscosity at 20 °C	Not determined
Kinematic Viscosity	Not determined

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9.2 Other information

Molecular mass	
Conductivity	Not determined
Liposolubility	Not determined
Particular properties groups of substances	None
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
Under normal conditions, it is completely stable to air and light.

10.3 Possibility of dangerous reactions
No dangerous reaction

10.4 Conditions to be avoided
None in particular

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
May produce carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008
Toxicological information regarding the substance: the product is non-toxic.

a) acute toxicity: not classified. Based on available data, the classification criteria are not met. Test: LD50 - Route: Oral - Species: Rat = 2300 mg/kg;
b) skin corrosion/irritation: not classified. Based on available data, the classification criteria are not met;
c) serious eye injury/serious eye irritation: the product is classified: Eye Dam. 1 H318;
d) respiratory or skin sensitization: not classified;
e) germ cell mutagenicity: not classified;
f) carcinogenicity: not classified;
g) reproductive toxicity: not classified;
h) specific target organ toxicity (STOT) - single exposure: not classified;
i) specific target organ toxicity (STOT) - repeated exposure: not classified;
j) aspiration hazard: not classified.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity
Use according to good working practices, avoiding dispersion of the product into the environment. Not classified for environmental hazards: based on available data, the classification criteria are not met.
Acute Aquatic Toxicity
Endpoint: LC50 - Species: Fish = 460-1000 mg/l - Duration h: 96
Endpoint: EC50 - Species: Bacterium = 65 mg/l - Lifetime h: 17

12.2 Persistence and degradability
N.A.

12.3 Bioaccumulative potential
N.A.

12.4 Mobility in soil
N.A.

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.

14.5 Environmental hazards Marine pollutant

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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)
EC Regulation 830/2015.
Regulation (EU) No 286/2011 (ATP 2 CLP)
Regulation (EU) No. 618/2012 (ATP 3 CLP)
Regulation (EU) No. 487/2013 (ATP 4 CLP)
Regulation (EU) No. 944/2013 (ATP 5 CLP)
Regulation (EU) No. 605/2014 (ATP 6 CLP)
Regulation (EU) No 2015/1221 (ATP 7 CLP)
Restrictions on the product or substances contained according to 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)
Legislative Decree 3/4/2006 No. 152 Environmental regulations

15.2 Chemical safety assessment
No

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.

Text of phrases used in paragraph 3: H318 Causes severe eye injury. EUH031 Contact with acids liberates toxic gas.

Hazard class and category	Code	Description
Eye Dam. 1 3.3/1	Severe eye injuries	Category 1

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

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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.
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.