



**Safety Data Sheet dated 19/3/2018, version 10**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier  
Trade name: SORBOSOL
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
FOR PROFESSIONAL USE
- 1.3. Details of the supplier of the safety data sheet  
Company:  
Esseco S.r.l. Via San Cassiano 99  
28069 - Trecale (NO)  
Italy
- Enartis - Phone n. +39-0321-790300  
Competent person responsible for the safety data sheet: vino@enartis.it
- 1.4. Emergency telephone number  
Enartis - Phone n. +39-0321-790300

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)  
⚠ Warning, Skin Irrit. 2, Causes skin irritation.  
⚠ Danger, Eye Dam. 1, Causes serious eye damage.  
Adverse physicochemical, human health and environmental effects:  
No other hazards
- 2.2. Label elements  
Hazard pictograms:
- Danger  
Hazard statements:  
H315 Causes skin irritation.  
H318 Causes serious eye damage.
- Precautionary statements:  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a doctor.
- Special Provisions:  
None
- Contains  
POTASSIUM METABISULPHITE
- Special provisions according to Annex XVII of REACH and subsequent amendments:  
None
- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards:  
No other hazards

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**SECTION 3: Composition/information on ingredients**
**3.1. Substances**

N.A.

**3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 60% - < 70%	POTASSIUM SORBATE	CAS: 24634-61-5 EC: 246-376-1 REACH No.: 01- 2119950315 -41-XXXX	⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.2/2 Skin Irrit. 2 H315
>= 20% - < 25%	POTASSIUM METABISULPHITE	CAS: 16731-55-8 EC: 240-795-3 REACH No.: 01- 2119537422 -45-XXXX	⚠ 3.3/1 Eye Dam. 1 H318 EUH031

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**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**4.2. Most important symptoms and effects, both acute and delayed**

None

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

 Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

**5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Do not breathe dust. See, too, paragraph 8 below.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep this product in a dry place.

Keep away from food, drink and feed.

Incompatible materials:

Keep away from acids.

Keep away from oxidizing agents

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

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## **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

POTASSIUM METABISULPHITE - CAS: 16731-55-8

ACGIH - STEL: 0.25 ppm - Notes: (SO<sub>2</sub>)

EU - TWA: 0.5 ppm - STEL: 1 ppm - Notes: (SO<sub>2</sub>)

DNEL Exposure Limit Values

POTASSIUM METABISULPHITE - CAS: 16731-55-8

Worker Industry: 263 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 78 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 10 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects  
 PNEC Exposure Limit Values  
 POTASSIUM METABISULPHITE - CAS: 16731-55-8  
 Target: Fresh Water - Value: 1.17 mg/l  
 Target: Marine water - Value: 0.12 mg/l  
 Target: Microorganisms in sewage treatments - Value: 88.1 mg/l  
 8.2. Exposure controls  
 Eye protection:  
 Eye glasses with side protection.  
 Protection for skin:  
 Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
 Protection for hands:  
 Use protective gloves that provides comprehensive protection.  
 Suitable material:  
 UNI EN 420/UNI EN 374  
 Respiratory protection:  
 Use adequate protective respiratory equipment.  
 Thermal Hazards:  
 None  
 Environmental exposure controls:  
 None  
 Appropriate engineering controls:  
 None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties  
 Appearance and colour: Solid  
 Odour: Characteristic  
 Odour threshold: N.A.  
 pH:  $\pm 5.90$  (10%)  
 Melting point / freezing point: N.A.  
 Initial boiling point and boiling range: N.A.  
 Solid/gas flammability: N.A.  
 Upper/lower flammability or explosive limits: N.A.  
 Vapour density: N.A.  
 Flash point: N.A.  
 Evaporation rate: N.A.  
 Vapour pressure: N.A.  
 Relative density: N.A.  
 Solubility in water: 100%  
 Solubility in oil: N.A.  
 Partition coefficient (n-octanol/water): N.A.  
 Auto-ignition temperature: N.A.  
 Decomposition temperature: N.A.  
 Viscosity: N.A.  
 Explosive properties: N.A.  
 Oxidizing properties: N.A.  
 9.2. Other information  
 Miscibility: N.A.  
 Fat Solubility: N.A.  
 Conductivity: N.A.  
 Substance Groups relevant properties: N.A.

## SECTION 10: Stability and reactivity

10.1. Reactivity  
 Stable under normal conditions

- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - None
- 10.4. Conditions to avoid
  - Stable under normal conditions.
- 10.5. Incompatible materials
  - Acids and oxidants
- 10.6. Hazardous decomposition products
  - Toxic gases

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## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Toxicological information of the product:

SORBOSOL

- a) acute toxicity
  - Not classified
  - Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
  - The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation
  - The product is classified: Eye Dam. 1 H318
- d) respiratory or skin sensitisation
  - Not classified
  - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
  - Not classified
  - Based on available data, the classification criteria are not met
- f) carcinogenicity
  - Not classified
  - Based on available data, the classification criteria are not met
- g) reproductive toxicity
  - Not classified
  - Based on available data, the classification criteria are not met
- h) STOT-single exposure
  - Not classified
  - Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
  - Not classified
  - Based on available data, the classification criteria are not met
- j) aspiration hazard
  - Not classified
  - Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

POTASSIUM SORBATE - CAS: 24634-61-5

- a) acute toxicity:
  - Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
  - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
- b) skin corrosion/irritation:
  - Test: Skin Irritant - Route: Skin Positive
- c) serious eye damage/irritation:
  - Test: Eye Irritant Positive

POTASSIUM METABISULPHITE - CAS: 16731-55-8

- a) acute toxicity:
  - Test: LD50 - Route: Oral - Species: Rat = 2300 mg/kg

## SECTION 12: Ecological information

- 12.1. Toxicity  
Adopt good working practices, so that the product is not released into the environment.  
SORBOSOL  
Not classified for environmental hazards  
Based on available data, the classification criteria are not met  
POTASSIUM METABISULPHITE - CAS: 16731-55-8  
a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 460-1000 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Bacteria = 65 mg/l - Duration 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

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## SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

- 14.1. UN number  
Not classified as dangerous in 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
- 14.6. Special precautions for user  
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

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## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H318 Causes serious eye damage.

EUH031 Contact with acids liberates toxic gas.

Hazard class and hazard category	Code	Description
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

Paragraphs modified from the previous revision:

SECTION 8: Exposure controls/personal protection

SECTION 10: Stability and reactivity

SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	On basis of test data (pH)

This document was prepared by a competent person who has received appropriate training.

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

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not Available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.