

Security data sheet
Powder E163

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

- 1.1 Identification of the product Identification of the mixture
Business name: Powder E163
- 1.2 Relevant identified uses of the substance/mixture and uses advised
Natural Food Color
- 1.3 Details of the supplier of the safety data sheet: **Keller Juices s.r.l. – Via Mario Vellani Marchi, 50 – 41124 Modena - Italy**

2. IDENTIFICATION OF HAZARDS

- 2.1 Not a hazardous mixture according to UE Directives 67/548/CE, 1999/45/CE.
Potential formation of explosive air/dust cloud.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Composition: Powder anthocyanins extract – is the concentrate liquid colour extracted from natural anthocyanins and spray dried.
- 3.2 Ingredients: Anthocyanins extract, sulphur dioxide
- 3.3 Hazardous components
Chemical name: Sulphur dioxide
CAS n° 7446-09-5 - EC n° 231-195-2
Classification (67/548/EC): Toxic / Corrosive R23 / R34
GHS Classification: Acute toxicity Cat. 3 Inhalation, H331 Skin corrosion Cat. 1B; H314
Concentration: Max 0.30 %

4. FIRST AID

No immediate medical attention is required

4.1 Description of first aid measures

- In case of skin contact: Wash with plenty of soap and water.
- In case of contact with eyes: Immediately wash out with plenty of water, seek medical attention if irritation should occur
- If swallowed: rinse out mouth with plenty of water, without swallowing. Seek medical attention if ill effects occur (SO₂ can potentially give allergenic effects)
- In case of inhalation: move to a fresh air atmosphere. Consult doctor if ill effects occur

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing

Suitable extinguishing media: nebulized water, foam, CO₂, dry agent

Extinguishing media which must not be used for safety reasons:

None.

5.2 Specific risks

none, product is quite inert,

Powder: hazard of dust cloud formation

5.3 Advice for fire-fighters

usual fire-fighting protective device

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:
prevent accidental contact using dust mask, protective clothing, gloves and safety glasses
- 6.2 Environmental precautions:
use appropriate containment to avoid environmental contamination
- 6.3 Methods and materials for containment and cleaning up: remove by physical means, wash with plenty of water

7. HANDLING AND STORAGE

- 7.1 Precaution for safe handling:
It is advisable to use dust mask, gloves and glasses. Follow general recommendations for handling of dusty products. Any handling of product must be suited to product features. Customer is the sole responsible person and must prevent any accident hazard (explosion in particular)
- 7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and animal feed.
keep in a cool, dry, well-ventilated place
- 7.3 Specific final use:
product is a natural food color, no special requirements for its use. However, due to conditions, which are beyond our control, we always recommend to make trials on each single application in order to prevent situations, which cannot be foreseen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
None
- 8.2 Exposure controls
Avoid accidental contact; keep to usual professional hygienic measures
Eye protection: safety glasses
Skin protection: Does not require the adoption of any special precautions for normal use.
Protection of hands: disposable gloves.
Respiratory protection: Suitable dust mask .
Environmental exposure controls: Though no particular measure needs to be taken in case of release, avoid dispersion in the environment

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
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|--|--------------------------------|---------------------|
| Appearance and colour: | Dark red-purple flowing powder | |
| Odour: | Neutral dry, slightly sweet | |
| pH: | 2.4 - 3.6 | |
| Melting point: | N.D. | |
| Auto ignition temperature: | 470°C (cloud) | |
| Explosive properties: | Min ignition energy (with 1mH) | 170mJ |
| | Max explosion pressure | 8.5 bar |
| | KST | 121 bar m/s |
| | Class (St) | 1 |
| | Min explosive concentration | 90 g/m ³ |
| Relative density (kg/dm ³ -20 °C) | 0.4 – 0.6 | |
| Solubility | soluble in water | |

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid:
Material dispersion with further forming of dust layers or clouds
- 10.2 Incompatible materials:
None.
- 10.3 Hazardous decomposition products:
heat decompositions products, CO, aldehydes, combined phenols.

11. TOXICOLOGICAL INFORMATION

Anthocyanins represent a large group of vegetable pigments and are widely present in vegetables/fruits commonly eaten by human beings

- 11.1 Information on toxicological effects
- Acute toxicology: N.A
 - Contact: in case of contact, sensitisation and irritation possible
 - Eyes contact: irritation may occur
 - Inhalation N.A

If applied accordingly, no negative effects on health are known

12. ECOLOGICAL INFORMATION

Due to composition of the product (fully degradable) and according to actual knowledge, no negative ecological effects are to be expected, nevertheless product is a concentrate and therefore it is advisable not to discharge into drains or the environment

13. DISPOSAL CONSIDERATIONS

- 13.1 Methods of treatment of the waste
Disposal should be in accordance with local, state or national legislation

14. TRANSPORT INFORMATION

No hazardous material according to RID, ADR, ADNR, IMDG, IATA-DGR

15. REGULATORY INFORMATION

- 15.1 Labelling according to EC Regulations No hazardous material – Not classified

16. OTHER INFORMATION

This MSDS complies with European Reg. 1907/2006 and subsequent amendments.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control we assume no liability for damages incurred by not correct use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Legenda:

N.A.:	not applicable
N.D.:	not available
ADR:	European agreement concerning the International. Carriage of Dangerous Goods by road
ADNR:	Regulation for the Carriage of Dangerous Substances on the Rhine
CAS:	Chemical abstract service (division of the American Chemical Society).
GHS:	Globally armonized system of classification and labeling of chemicals.
IATA-DGR:	Regulation for the safe transport of dangerous goods of the "International air transport association" (IATA).
IMDG:	International maritime code for dangerous goods.
RID:	Regulation concerning the International Carriage of Dangerous Goods by rail.