

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/07/22 Revision date: 01/12/22 Supersedes version of: 15/11/22 Version: 5.2

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : AZUFEGA OXIDANTE
UFI : W2SM-D1VW-M00J-J6K6

Product code : 370350

Type of product : Plant protection products

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Fungicide Function or use category : Pesticides

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

PRODUCTOS AJF, S.L.

Ctra. Morón-Sevilla Km 41,8

ES-41530 Morón de la Frontera (Sevilla)

T 955853211 (Horario 8-14h 16-19h) 610780655 (24h) - F 955853213

productosajf@productosajf.es

### 1.4. Emergency telephone number

Emergency number : +34 955 853 211 (Horario: 8-14 h 16-19 h) 610 780 655 (24 h) +34 915 620 420 (INT)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, Category 2 H272
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulfur	CAS-No.: 7704-34-9 EC-No.: 231-722-6 EC Index-No.: 016-094-00-1 REACH-no: 01-2119487295- 27	80	Skin Irrit. 2, H315
potassium permanganate	CAS-No.: 7722-64-7 EC-No.: 231-760-3 EC Index-No.: 025-002-00-9	0,5	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Repr. 2, H361d STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash

skin with plenty of water. Take off contaminated clothing.

First-aid measures after eye contact

: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse

cautiously with water for several minutes. Call a physician immediately.

First-aid measures after ingestion

: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects

: May cause an allergic skin reaction.

Symptoms/effects after inhalation

: May cause headache, nausea and irritation of respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Irritation.

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Symptoms/effects after eye contact : Causes eye irritation. Serious damage to eyes. Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. earth, sand, dry chemical powder or foam. Carbon dioxide. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : In case of fire and/or explosion do not breathe fumes. May intensify fire; oxidiser.

Explosion hazard : No direct explosion hazard. Reactivity in case of fire : Product is not explosive.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

Precautionary measures fire : Keep cool. Protect from sunlight.

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Evacuate area. Prevent fire fighting water from entering the environment.

Protection during firefighting : Wear recommended personal protective equipment. Do not attempt to take action without

suitable protective equipment. Self-contained breathing apparatus. Complete protective

clothing.

Other information : High temperature decomposition products are harmful by inhalation.

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

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Evacuate area. No open flames, no sparks, and no smoking. Avoid

contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended

personal protective equipment. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel.

# **6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Collect spillage.

Methods for cleaning up : Mechanically recover the product. Clean up any spills as soon as possible, using an

absorbent material to collect it. Shovel or sweep up and put in a closed container for

disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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

#### 7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

: Not expected to present a significant hazard under anticipated conditions of normal use.

Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear personal protective equipment. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Avoid contact with skin and eyes.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep only in original container. Protect from sunlight. Protect from moisture. Store in a well-

ventilated place. Keep cool.

Incompatible products : Strong acids. Strong bases.

Incompatible materials : Direct sunlight. combustible materials.

Storage area : Store in a well-ventilated place. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

AZUFEGA OXIDANTE			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Potassium permanganate		
IOEL TWA	0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)		
Remark	(Year of adoption 2011)		
Regulatory reference	SCOEL Recommendations		
Italy - Occupational Exposure Limits	Italy - Occupational Exposure Limits		
Local name	Etilen glicol		
OEL TWA	52 mg/m³		
OEL TWA [ppm]	20 ppm		
OEL STEL	104 mg/m³		
OEL STEL [ppm]	40 ppm		
Remark	Cute		
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.		
Portugal - Occupational Exposure Limits			
Local name	Etilenoglicol		
OEL C [ppm]	100 ppm H (Apenas aerossol)		
Remark	A4 (Agente não classificável como carcinogénico no Homem)		

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Spain - Occupational Exposure Limits	AZUFEGA OXIDANTE			
Etilenglicol  VLA-ED (OEL TWA) [1] 52 mg/m²  VLA-ED (OEL TWA) [2] 20 ppm  VLA-EC (OEL STEL) 104 mg/m²  VLA-EC (OEL STEL) 109 40 ppm  Remark Via dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporatio tola si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).  Regulatory reference Límited Kingdom - Occupational Exposure Limits  Local name Ethane-1,2-diol 10 mg/m² particulate 52 mg/m² vapour  WEL TWA (OEL TWA) [1] 10 mg/m² particulate 52 mg/m² vapour  WEL TWA (OEL TWA) [2] 20 ppm vapour  WEL TWA (OEL TWA) [2] 20 ppm vapour  WEL STEL (OEL STEL) 104 mg/m² vapour  WEL STEL (OEL STEL) 104 mg/m² vapour  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Potassium permanganate  Potassium permanganate  OEL TWA (Year of adoption 2011)	Regulatory reference	Norma Portuguesa NP 1796:2014		
AVLA-ED (OEL TWA) [1]  52 mg/m²  AVLA-ED (OEL STEL)  AVLA-EC (OEL STEL)  AVLA-EC (OEL STEL)  AVLA-EC (OEL STEL)  AVLA-EC (OEL STEL) [ppm]  AVIA-EC (OEL STEL) [ppm]  AVLA-EC (	Spain - Occupational Exposure Limits			
AVLA-ED (OEL TWA) [2] 20 ppm  AVLA-EC (OEL STEL) 104 mg/m³  AVLA-EC (OEL STEL) [ppm] 40 ppm  Remark Via dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor limite indicativo).  Regulatory reference Limites de Exposición Profesional para Agentes Químicos en España 2022. INSHT  United Kingdom - Occupational Exposure Limits  Local name Ethane-1,2-diol  WEL TWA (OEL TWA) [1] 10 mg/m³ particulate 52 mg/m³ vapour  WEL TWA (OEL TWA) [2] 20 ppm vapour  WEL STEL (OEL STEL) 104 mg/m³ vapour  WEL STEL (OEL STEL) 104 mg/m³ vapour  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Potassium permanganate  OEL TWA (Year of adoption 2011)	Local name	Etilenglicol		
AVLA-EC (OEL STEL)  104 mg/m³  AV Depm  Remark  Via dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del contaminante), vLI (Agente químico para poder cuantificar la cantidio alcio bala siborió del contaminante), vLI (Agente químico para poder cuantificar la cantidio alcio alcionaminante), vLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).  Regulatory reference  Limites de Exposición Profesional para Agentes Químicos en España 2022. INSHT  United Kingdom - Occupational Exposure Limits  Local name  Ethane-1,2-diol  10 mg/m³ particulate 52 mg/m³ vapour  WEL TWA (OEL TWA) [2]  20 ppm vapour  WEL STEL (OEL STEL)  104 mg/m³ vapour  WEL STEL (OEL STEL)  104 mg/m³ vapour  Remark  Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  Potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Potassium permanganate  OEL TWA  0,2 mg/m³ (inhalable fraction)  0,05 mg/m³ (respirable fraction)  0,05 mg/m³ (respirable fraction)  0,05 mg/m³ (respirable fraction)	VLA-ED (OEL TWA) [1]	52 mg/m³		
WLA-EC (OEL STEL) [ppm]  Remark  Via dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización dei control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).  Regulatory reference  Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT  United Kingdom - Occupational Exposure Limits  Local name  Ethane-1,2-diol  10 mg/m² particulate 52 mg/m³ vapour  WEL TWA (OEL TWA) [1]  10 mg/m² particulate 52 mg/m³ vapour  WEL STEL (OEL STEL)  104 mg/m³ vapour  WEL STEL (OEL STEL)  104 mg/m³ vapour  Remark  Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  Potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Potassium permanganate  OL2 mg/m² (inhalable fraction) 0,05 mg/m² (respirable fraction) 0,05 mg/m² (respirable fraction) 0,05 mg/m² (respirable fraction)	VLA-ED (OEL TWA) [2]	20 ppm		
Via dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).  Regulatory reference  Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT  United Kingdom - Occupational Exposure Limits  Local name  Ethane-1,2-diol  WEL TWA (OEL TWA) [1]  10 mg/m³ particulate 52 mg/m³ vapour  WEL TWA (OEL TWA) [2]  20 ppm vapour  WEL STEL (OEL STEL)  MEL STEL (OEL STEL)  104 mg/m³ vapour  WEL STEL (OEL STEL) [ppm]  40 ppm vapour  Remark  Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  Potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Potassium permanganate  OEL TWA  0,2 mg/m³ (respirable fraction) 0,05 mg/m³ (respirable fraction) 0,05 mg/m³ (respirable fraction)	VLA-EC (OEL STEL)	104 mg/m³		
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WEL STEL (OEL STEL) [ppm]  40 ppm vapour  Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  potassium permanganate (7722-64-7)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Potassium permanganate  OEL TWA  0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)  Remark  (Year of adoption 2011)	WEL TWA (OEL TWA) [2]	20 ppm vapour		
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Local name  Potassium permanganate  OEL TWA  0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction) (Year of adoption 2011)	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
Potassium permanganate  OEL TWA  0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)  (Year of adoption 2011)	potassium permanganate (7722-64-7)			
OEL TWA  0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)  Remark  (Year of adoption 2011)	EU - Indicative Occupational Exposure Limit (IOEL)			
0,05 mg/m³ (respirable fraction)  Remark (Year of adoption 2011)	Local name	Potassium permanganate		
	IOEL TWA	,		
Regulatory reference SCOEL Recommendations	Remark	(Year of adoption 2011)		
	Regulatory reference	SCOEL Recommendations		

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

# Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

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#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Gloves. Dust formation: dust mask. Protective clothing.

### Personal protective equipment symbol(s):









#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

Eye protection			
Type Field of application Characteristics Standard			
Safety goggles	Dust		EN 166

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Long sleeved protective clothing

#### Hand protection:

protective gloves

# 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask

Respiratory protection			
Device Filter type Condition Standard			
Dust mask	Type P1		EN 143

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Grey.
Odour : characteristic.
Odour threshold : Not available

Not available Not available Melting point Freezing point : Not applicable Boiling point Not available Flammability Non flammable. Explosive properties No data available. Oxidising properties No data available. **Explosive limits** Not applicable Not applicable Lower explosion limit Upper explosion limit Not applicable Flash point : Not applicable

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Auto-ignition temperature : Not applicable
Decomposition temperature : Not available

pH : 9

pH solution : Not available
Viscosity, kinematic : Not applicable
Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : Not available

Relative density : 0.78 : Not applicable Relative vapour density at 20°C : Not available Particle size Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area : Not available Particle dustiness : Not available

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Product is not explosive. May intensify fire; oxidiser.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. High temperature. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

# 10.5. Incompatible materials

Strong acids. Strong bases. Combustible materials.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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potassium permanganate (7722-64-7	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Skin corrosion/irritation	: Causes skin irritation. pH: 9
Serious eye damage/irritation	: Causes serious eye damage. pH: 9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

potassium permanganate (7722-64-7)	
NOAEL (dermal, rat/rabbit, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Assiration hazard	Not alongified

Aspiration hazard : Not classified

AZUFEGA OXIDANTE	
Viscosity, kinematic	Not applicable

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

Other information : Information on Effects: refer to section 4

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

Additional information : Based on available data, the classification criteria are not met.

potassium permanganate (7722-64-7)	
LC50 - Fish [1]	0,47 mg/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	0,06 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

AZUFEGA OXIDANTE	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

AZUFEGA OXIDANTE	
Bioaccumulative potential	Not established.

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

### **AZUFEGA OXIDANTE**

PBT: not relevant - no registration required

vPvB: not relevant - no registration required

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste)

Waste treatment methods

Product/Packaging disposal recommendations

: Disposal must be done according to official regulations.

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. Collection point. hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Do not re-use empty containers. Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

n accordance with ADR / IMDG / IATA / ADN / RID  ADR IMDG IATA ADN RID						
ADR	IMDG	IATA	ADN	עוא		
14.1. UN number or ID n	14.1. UN number or ID number					
UN 1350	UN 1350	UN 1350	UN 1350	UN 1350		
14.2. UN proper shippin	g name					
SULPHUR	SULPHUR	Sulphur	SULPHUR	SULPHUR		
Transport document descr	iption					
UN 1350 SULPHUR, 4.1, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1350 SULPHUR, 4.1, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1350 Sulphur, 4.1, III, ENVIRONMENTALLY HAZARDOUS	UN 1350 SULPHUR, 4.1, III, ENVIRONMENTALLY HAZARDOUS	UN 1350 SULPHUR, 4.1, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard	class(es)					
4.1	4.1	4.1	4.1	4.1		
	***************************************	***************************************	¥2>	***************************************		
14.4. Packing group						
III	III	III	III	III		

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

#### 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : F3 Special provisions (ADR) 242 Limited quantities (ADR) 5kg Excepted quantities (ADR) E1

: P002, IBC08, LP02, R001 Packing instructions (ADR)

Special packing provisions (ADR) : PP40 : MP11 Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) : T1, BK1, BK2 : TP33

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : SGAV Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Bulk (ADR) VC1, VC2

Hazard identification number (Kemler No.) 40

Orange plates

40 **1350** 

Tunnel restriction code (ADR) Ε 1Z EAC code

#### Transport by sea

: 242.967 Special provisions (IMDG) : 5 kg Limited quantities (IMDG) Excepted quantities (IMDG) E1 Packing instructions (IMDG) P002, LP02 IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) B3

Tank instructions (IMDG) T1, BK2, BK3 TP33 Tank special provisions (IMDG) EmS-No. (Fire) : F-A : S-G

EmS-No. (Spillage) Stowage category (IMDG) : A

: SW1, SW23 Stowage and handling (IMDG) SG17 Segregation (IMDG)

Properties and observations (IMDG) When involved in a fire, evolves toxic, very irritating and suffocating gas. The dust forms an

explosive mixture with air which may be ignited by static electricity. Forms explosive mixtures with oxidizing substances. Corrosive to steel, in particular in the presence of moisture. The provisions of this Code should not apply to sulphur when it is formed to a

specific shape (such as prills, granules, pellets, pastilles or flakes).

#### Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) Y443 10kg PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) 446 PCA max net quantity (IATA) 25kg CAO packing instructions (IATA) : 449 CAO max net quantity (IATA) 100kg

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Special provisions (IATA) : A105. A803

ERG code (IATA) : 3L

Inland waterway transport

: F3 Classification code (ADN) Special provisions (ADN) : 242 Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Carriage permitted (ADN) : B : PP Equipment required (ADN) : 0 Number of blue cones/lights (ADN)

Rail transport

Classification code (RID) : F3 Special provisions (RID) : 242 Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3 Mixed packing provisions (RID) : MP11 Portable tank and bulk container instructions (RID) : T1, BK1, BK2 : TP33

Portable tank and bulk container special provisions

(RID)

Tank codes for RID tanks (RID) : SGAV Transport category (RID) : 3 Special provisions for carriage – Packages (RID) : W1 Special provisions for carriage – Bulk (RID) : VC1, VC2 Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 40

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

## **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (273/2004)**

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Potassium permanganate		7722-64-7	2841 61 00	Category 2	100 kg	Annex I, Annex II

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

None of the components are listedpotassium permanganate is listed

: None of the components are listed

: None of the components are listed

: None of the components are listed

**Denmark** 

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

**Switzerland** 

Storage class (LK) : LK 4.1 - Flammable solids

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier No chemical safety assessment has been carried out

## **SECTION 16: Other information**

#### Indication of changes:

Hazards identification.

Indication of changes			
Section	Changed item	Change	Comments
2	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	

Abbreviations and acronyms:		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
NOAEL	No-Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
vPvB	Very Persistent and Very Bioaccumulative	
LOAEL	Lowest Observed Adverse Effect Level	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
PNEC	Predicted No-Effect Concentration	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	
IATA	International Air Transport Association	
SDS	Safety Data Sheet	
EC50	Median effective concentration	
DSD	Dangerous Substances Directive 67/548/EEC	
DMEL	Derived Minimal Effect level	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
IARC	International Agency for Research on Cancer	
BCF	Bioconcentration factor	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EN	European Standard	
OEL	Occupational Exposure Limit	
ThOD	Theoretical oxygen demand (ThOD)	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
ED	Endocrine disrupting properties	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the

packaging.

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
H272	May intensify fire; oxidiser.	
H302	Harmful if swallowed.	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
Ox. Sol. 2	Oxidising Solids, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.