

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

1.1. Product identifier

Product form : Mixture
Trade name : RUBBER VULCANIZING AGENT HD OT20

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Rubber production and processing

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

AZUFRERA Y FERTILIZANTES PALLARES, S.A.U.
Av. Europa Parcela 1 – 7 (Pol.Ind. Constantí)
43120 Constantí (Tarragona)
España
T + 34 977 524 650 - F + 34 977 524 651
afepasa@afepasa.com - www.afepasa.com

1.4. Emergency telephone number

Emergency number : +34 977 524 650
Office hours, Monday to Friday (08:00-17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.
Extra phrases : Do not contaminate water with the product or its container.

2.3. Other hazards

Other hazards which do not result in classification : Solid sulfur is flammable. Burning sulfur emits toxic and irritating gas – sulfur dioxide (SO₂), which may be corrosive and cause environment acidification. Dust of sulfur/air mixtures may be explosive. May be irritating by inhalation, eye and skin contact. May cause digestive system disorders.

PBT: not yet assessed

vPvB: not yet assessed

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 %

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

| Component | |
|-------------------|---|
| sulfur(7704-34-9) | The substance is not 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 |

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 | 8 | Skin Irrit. 2, H315 |

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 after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

| | |
|------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after eye contact | : Skin and/or eye irritation or corrosion may appear. |
| Symptoms/effects after ingestion | : If swallowed the substance may have a mild laxative effect. |

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. Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Sulphur oxides. Hydrogen sulfide. Carbon oxides (CO, CO ₂). |
|--|--|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : 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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep the container tightly closed. Do not smoke.
Keep in fireproof place.
Incompatible products : Ignition sources.
Incompatible materials : Oxidising agents.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

sulfur (7704-34-9)

PNEC (Oral)

| | |
|---------------------------------|-----------|
| PNEC oral (secondary poisoning) | 0.22 mg/l |
|---------------------------------|-----------|

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety goggles or face shield.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Non-skid boots. A helmet is recommended.

Hand protection:

E.g. cotton. PVA gloves are unsuitable.

8.2.2.3. Respiratory protection

Respiratory protection:

Insufficient ventilation - a mask with a dust filter or with a filter for organic vapours (type E).

8.2.2.4. Thermal hazards

Thermal hazard protection:

Molten hot sulfur can cause skin and eye burns.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent soil and water pollution. Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|---|
| Physical state | : Solid |
| Colour | : Yellow. |
| Appearance | : Powder. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : 113 – 120 °C (101.3 kPa; sulfur) |
| Freezing point | : Not applicable |
| Boiling point | : 444.6 °C (101.3 kPa; sulfur) |
| Flammability | : Non flammable. |
| Explosive properties | : Dust may form explosive mixture in air. |
| Explosive limits | : Not applicable |
| Lower explosion limit | : > 2000 g/m ³ sulfur |
| Upper explosion limit | : 30 g/m ³ sulfur |
| Flash point | : 218 °C (761 mmHg; sulfur) |

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

| | |
|---|--|
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not available |
| pH | : Not available |
| pH solution | : Not available |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Insoluble. water: < 0.005 mg/l (22°C) |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour Pressure 20°C | : 0.00014 Pa (20°C) |
| Vapour pressure at 50 °C | : Not available |
| Density | : ≈ 1.58 g/cm ³ (20°C) |
| Relative density | : Not available |
| Vapour density | : Not applicable |
| Particle size | : 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

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

High temperature. Proximity to sources of heat or fire. Sources of ignition.

10.5. Incompatible materials

Strong oxidising agents e.g. strong alkali, alkaline amines, nitrates, chlorates, perchlorates, permanganates. Sulfur is corrosive to some metals and polymers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met.) |

sulfur (7704-34-9)

| | |
|-----------------------------------|-------------------------|
| LD50 oral rat | > 2000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | 5.43 mg/l/4h |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

| | |
|-----------------------------------|---|
| Additional information | : The product can cause skin irritation |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met.) |
| Additional information | : with the product can causes eye burning and tearing, and even sight damage. |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met.) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Additional information | : Ingestion of molten sulfur can cause gullet and digestive system burns which may cause further damage to other organs. Dust inhalation – breathing shortenings with cough, irritation of the upper respiratory tract. |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Additional information | : Chronic exposure to sulfur's vapours and dust can cause mucous membrane irritation, headache, dizziness, excitement, apathy, digestive system disorders, skin dryness and cracking. |

| sulfur (7704-34-9) | |
|--|--|
| NOAEL, subchronic, oral, rat, systemic | 1000 mg/kg bw/day |
| NOAEL, subacute, Dermal, rat, systemic | 400-1000 mg/kg bw/day |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met.) |

| RUBBER VULCANIZING AGENT HD OT20 | |
|----------------------------------|----------------|
| Viscosity, kinematic | Not applicable |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

| | |
|--|--|
| Adverse health effects caused by endocrine disrupting properties | : 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 % |
|--|--|

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified (Based on available data, the classification criteria are not met.) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met.) |

12.2. Persistence and degradability

| RUBBER VULCANIZING AGENT HD OT20 | |
|----------------------------------|------------------|
| Persistence and degradability | Not applicable. |
| sulfur (7704-34-9) | |
| Persistence and degradability | Not established. |

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

12.3. Bioaccumulative potential

RUBBER VULCANIZING AGENT HD OT20

| | |
|---------------------------|------|
| Bioaccumulative potential | Low. |
|---------------------------|------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

RUBBER VULCANIZING AGENT HD OT20

PBT: not yet assessed

vPvB: not yet assessed

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: 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 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

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

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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 no 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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

sulfur

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|--|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Modified | |
| | Revision date | Modified | |
| | Issue date | Modified | |
| 2.3 | Other hazards not contributing to the classification | Added | |
| 4 | First aid measures | Modified | |
| 7 | Handling and storage | Modified | |
| 8 | Exposure controls/personal protection | Modified | |
| 10.5 | Incompatible materials | Added | |
| 11.1 | Reason for no classification | Added | |
| 12.1 | Ecology - general | Added | |
| 12.2 | Persistence and degradability | Added | |
| 12.3 | Bioaccumulative potential | Added | |
| 13.1 | Product/Packaging disposal recommendations | Added | |
| 15.2 | Chemical safety assessment | Added | |
| 16 | Data sources | Modified | |

Abbreviations and acronyms:

| | |
|------|---|
| vPvB | Very Persistent and Very Bioaccumulative |
| PBT | Persistent Bioaccumulative Toxic |
| LD50 | Median lethal dose |
| LC50 | Median lethal concentration |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |

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. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

Other information : Refer to the safety data sheet before handling or disposing.

Full text of H- and EUH-statements:

| | |
|---------------|---|
| EUH210 | Safety data sheet available on request. |
| H315 | Causes skin irritation. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

Safety Data Sheet (SDS), EU

RUBBER VULCANIZING AGENT HD OT20

Safety Data Sheet

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

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.