



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

- **1.1 Product Identifier**
 - Trade name: **Austinite S, Austinite HD, Austinite 100**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.
- **Application of the substance/the mixture:** Explosives for commercial use.
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier**

AUSTIN POWDER GmbH
E-Mail: sdb@austinpowder.at
 - **Information Department:**

AUSTIN POWDER GmbH, (Mo. – Fr. 6 – 13): +43(0)3585-2251
E-Mail: sdb@austinpowder.at
- **1.4 Emergency telephone number**

Poison Control Center: +43 (01) 406 43 43

SECTION 2: Hazards identification


- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008:**

Expl. 1.1 H201 Explosive; mass explosion hazard.
Ox. Sol. 2 H272 May intensify fire; oxidiser.
Eye Irrit. 2 H319 Causes serious eye irritation.
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

Xn; Harmful
R22: Harmful if swallowed.
Xi; Irritant.
R36/37/38: Irritating to eyes, respiratory system and skin.
E; Explosive
R2: Risk of explosion by shock, friction, fire or other sources of ignition. O; Oxidising.
R8-9: Contact with combustible material may cause fire. Explosive when mixed with combustible material.
 - **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation. In terms of labelling the derogation according to Art. 23e in conjunction with Appendix I, section 1.3.5 und 2.1 is claimed.
 - **Hazard pictograms:**
 - 
 - GHS01
 - **Signal word:** Danger.
 - **Hazard statements:**

H201 Explosive; mass explosion hazard.
H272 May intensify fire; oxidizer.
H319 Causes serious eye irritation.

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recautionary statements:

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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P250 Do not subject to grinding/shock/friction.
- 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.
- P373 DO NOT fight fire when fire reaches explosives.
- P313 Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

| | | | |
|--|------------------|--|---------|
| CAS: 6484-52-2 EINECS: 229-347-8 Reg.nr.: 01-2119490981-27 | ammonium nitrate | ⚠ Ox. Sol. 2, H272; ⚠ Eye Irrit. 2, H319 | 90-100% |
|--|------------------|--|---------|

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Take affected persons into fresh air and keep quiet.
Seek immediate medical advice.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Rinse out mouth and then drink plenty of water. Seek immediate medical advice.
Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor:** Increased exposure may cause irritation to the respiratory system
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water spray
Fire-extinguishing powder
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
Nitrogen oxides (NOx)
Carbon monoxide (CO)

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Ammonia (NH₃)-fumes
Product is directly involved in the fire:
Explosion hazard - no fire fighting.
Warn and evacuate the area. At least 300 m away for cover.

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If product is not directly involved in the fire:
The fire from spreading to the product must avoid. If possible remove product from the danger zone.

- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information:** Announcing risk of explosion!

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep away from ignition sources
All persons whose presence is not necessary to remove from the affected area.
Avoid contact with skin, clothes and eyes.
Wear protective equipment. Keep unprotected persons away.
Avoid shock or friction.
- **6.2 Environmental precautions**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up**
Pick up mechanically.
Announcing risk of explosion!
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Handle with care. Avoid jolting, friction and impact.
Keep away from heat and direct sunlight.
Prevent formation of dust.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** For storage is required a national permit.
- **Information about storage in one common storage facility:**
Store away from flammable substances.
Store away from reducing agents.
Store away from combustible and organic substances.
- **Further information about storage conditions:** Store receptacle in a well ventilated area.
- **Recommended storage temperature:**
Do not store below 5 °C or above 30 °C.
A storage up to 60 °C is safe. Product data sheet note.
- **7.3 Specific end use(s)**
No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures:** The usual precautionary measures should be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke while working.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
None required during handling of packaged products.
- **Material of gloves:**
Nitrile rubber, NBR
Neoprene gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

| | |
|---------|-----------------------|
| Form: | Prills |
| Colour: | White to light red |
| Odour: | Mineral-oil-like |
- **Change in condition**

| | |
|------------------------------|--------|
| Melting point/Melting range: | 180 °C |
|------------------------------|--------|
- **Flash point:** Not applicable
- **Ignition temperature:**
- **Decomposition temperature:** >180 °C (Danger of Explosion!)
- **Self igniting:** Product is not selfigniting.
- **Danger of explosion:** Risk of explosion by shock, friction, fire or other sources of ignition.
Heating may cause an explosion.
- **Vapour pressure:** Not applicable.
- **Density:** Not determined
- **Bulk density at 20 °C:** 0.7 - 0.9 g/cm³
- **Evaporation rate:** Not applicable.
- **Solubility in/Miscibility with Water:** Soluble
- **9.2 Other information**
No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
 - **Conditions to avoid:** Avoid: heat, flames, sparks. Shock, friction (explosive hazard)
- **10.3 Possibility of hazardous reactions**
Thermal decomposition begins at 180 °C;
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials**
Acids
alkali (lyes)
Do not store together with organic and combustible substances.
- **10.6 Hazardous decomposition products**
Carbon monoxide
Nitrogen oxides (NO_x)
Ammonia

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity**
 - **Primary irritant effect:**
 - **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
 - **Experience with humans:** Repeated contact with the explosive material can cause skin and eye irritation.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
 - **Carcinogenicity:** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity:** Based on available data, the classification criteria are not met.
 - **STOT-single exposure:** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
 - **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**
Easily biodegradable
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Ecotoxicological effects:**
 - **Type of test Effective concentration Method Assessment**
CAS: 6484-52-2 Ammonium nitrate
to aquatic organisms: LD50/96 h 10 - 100 ppm for fish: 800 mg / L lethal in 3.9 hours
 - **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.
- **European waste catalogue:** The disposal codes of the European list of wastes depend on the country of origin of the waste. This product has got identified uses in a various industries. This is, why a definite disposal code cannot be stated. The disposal code should be selected in agreement with disposer and/or the competent Authority.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

| | |
|--|---|
| · 14.1 UN-Number · ADR, IMDG | UN 0082 |
| · 14.2 UN proper shipping name · ADR · IMDG | UN 0082 EXPLOSIVE, TYPE B |
| · 14.3 Transport hazard class(es) · ADR, IMDG |  |
| · Class · Label | 1 Explosive substances and articles. 1 |
| · IATA · Class | 1 Explosive substances and articles. |
| · 14.4 Packing group · ADR | Void |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: | Warning: Explosive substances and articles. 1.1D F-B,S-Y |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR · Tunnel restriction code | B1000C |
| · UN "Model Regulation": | UN 0082 EXPLOSIVE, TYPE B, 1.1D |
| · Trade name: Austinite S, Austinite HD, Austinite 100 | |

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SECTION 15: Regulatory Information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment**
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Liability about information is not warranted although information is given to our best knowledge.

- **Relevant phrases**
H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.
R36 Irritating to eyes.
R8 Contact with combustible material may cause fire.
R9 Explosive when mixed with combustible material.
- **Recommended restriction of use**
Handling of explosives is permitted only to persons with the appropriate permission.
- **Department issuing MSDS:** Labor Austin Powder
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Expl. 1.1: Explosives, Division 1.1
Ox. Sol. 2: Oxidising Solids, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- *** Data compared to the previous version altered.**