



according to Regulation (EC) No 1907/2006 (REACH)

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

- **1.1 Product identifier**
- Trade name: **Hydromite 1**
- **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.
Note the manufacturer's product information.
Use the product only within the framework of existing laws and regulatory approvals.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
AUSTIN POWDER GmbH
Weissenbach 16
A-8813 St. Lambrecht
Telefon +43(0)3585/2251
E-Mail: sdb@austinpowder.at
- **Information department:**
Werkschutz AUSTIN POWDER GmbH, (Mo – Fr 6 – 13 Uhr): +43(0)3585-2251
E-Mail Adresse: 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
R36/38: Irritating to eyes 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. (Contd. on page 2)

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· Hazard pictograms



GHS01

· Signal word Danger

· Hazard statements

H201 Explosive; mass explosion hazard.

· Precautionary statements

- 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.
- P370+P380 In case of fire: Evacuate area.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P372 Explosion risk in case of fire.
- 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 ☒ Xi R36; 🔥 O R8-9 ☒ Ox. Sol. 2, H272; ☠ Eye Irrit. 2, H319	50-100%
CAS: 7631-99-4 EINECS: 231-554-3 Reg.nr.: 01-2119488221-41	sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen ☒ Xn R22; ☒ Xi R36/37/38; 🔥 O R8 ☒ Ox. Sol. 2, H272; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%

· 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

- Immediately remove any clothing soiled by the product.
- Take affected persons out into the fresh air.
- Personal protection for the First Aider.
- Take affected persons out of danger area and lay down.

· 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.

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- **After swallowing**
Rinse out mouth, seek medical treatment.
Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident.
Symptome sind Methämoglobinbildung durch NO, Lungenödem mit einer Latenzzeit bis 48 Stunden.
- **Information for doctor**
Besonders zur Vorbeugung eines Lungenödems muss Cortison mittels Inhalation verabreicht werden (Je nach Präparat 5-10 Hübe).
Medical supervision of the patient at least 72-96 hours.
- **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** Explosive material, no fire-fighting!
- **5.2 Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Ammonia (NH₃)-fumes
- If product is directly involved in the fire:
Explosion hazard - no fire fighting. Warn and evacuate the area. At least 300 m away for cover.
- 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.
Wear fully protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
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.
Remove persons from danger area.
Wear protective equipment. Keep unprotected persons away.
Avoid shock or friction
- **6.2 Environmental precautions:**
Dilute with plenty of water.
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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Handle with care. Avoid jolting, friction and impact.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Fire extinguishers provide.
Keep ignition sources away - Do not smoke.
Protect from heat.
Prevent impact and friction.
Use explosion-proof apparatus / fittings and spark-proof tools.
- **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 oxidising agents.
Store away from reducing agents.
Store separately from oxidising and spontaneously flammable substances.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Recommended storage temperature:** Do not store below 5 °C or above 30 °C.
- **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.
- **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.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke while working.
- **Breathing equipment:**
Not necessary if room is well-ventilated.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
None required during handling of packaged products, in the cases of direct contact with the explosive mass
- **Material of gloves**
Nitrile rubber, NBR
Neoprene gloves

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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 can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**

Safety glasses
Tightly sealed goggles.

• **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Solid mass

Colour: White

• **Odour:** Odourless

• **Change in condition**

Boiling point/Boiling range: undetermined

• **Flash point:** Not applicable

• **Ignition temperature:**

Decomposition temperature: > 170 °C

• **Self igniting:** Product is not selfigniting.

• **Danger of explosion:** Risk of explosion by shock, friction, fire or other sources of ignition.
Explosive when mixed with combustible material.
Heating may cause an explosion.

• **Vapour pressure:** Not determined.

• **Density at 20 °C:** 1.2 – 1.3 g/cm³

• **Solubility in / Miscibility with**

Water: Soluble

• **Solvent content:**

Organic solvents: 0.0 %

Solids content: 100 %

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

• **10.1 Reactivity** Risk of explosion by shock, friction, fire or other sources of ignition.

• **10.2 Chemical stability** The product is chemically stable under the recommended conditions of use.

• **Conditions to avoid:**

Avoid: heat, flames, sparks.
Shock, friction (explosive hazard)

• **10.3 Possibility of hazardous reactions** Thermal decomposition begins at 170 °C;

• **10.5 Incompatible materials:**

Acids
alkali (lyes)
Avoid contaminations with other chemical/substances, especially chlorid-containing compounds, copper, brass i.a. copper-alloy, chromate and zinc.

• **10.6 Hazardous decomposition products:**

Nitrogen oxides (NO_x)
Carbon monoxide and carbon dioxide
Ammonia

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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 sensitisation** Based on available data, the classification criteria are not met.
- **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**
- Ammonium nitrate, CAS 6484-52-2
to aquatic organisms: LD50/96 h 10 - 100 ppm
for fish 800 mg / L lethal in 3.9 hours
- Sodium nitrate; 7631-99-4
Toxicity to fish LC50> 1000 mg / L 96 h
Daphnia Daphnia LC50> 1000 mg / L 24 h
- **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.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be specially treated adhering to official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **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:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	<p>UN0241</p>
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	<p>0241 UN0241</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR 	<p></p>
<ul style="list-style-type: none"> · Class · Label 	<p>1 Explosive substances and articles. 1</p>
<ul style="list-style-type: none"> · IMDG · Class 	<p>Void</p>
<ul style="list-style-type: none"> · IATA · Class · Label 	<p>Void -</p>
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	<p>Void</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	<p>No</p>
<ul style="list-style-type: none"> · 14.6 Special precautions for user · EMS Number: 	<p>Warning: Explosive substances and articles. F-A,S-Q</p>
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: · ADR · Transport category · Tunnel restriction code 	<p>1 B1000C</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN0241, 0241, 1.1D (1)</p>

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.
- Other regulations, limitations and prohibitive regulations
Handling of explosives is permitted only to persons with the appropriate permission
- 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.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R8 Contact with combustible material may cause fire.
- R9 Explosive when mixed with combustible material.

• **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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

• *** Data compared to the previous version altered.**