



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 70 AL**
- **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
E-Mail: sdb@austinpowder.at
- **Information department:**
AUSTIN POWDER GmbH, (Mon. – 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. 1 H271 May cause fire or explosion; strong oxidiser.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
- **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:**



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- **Signal word:** Danger
- **Hazard statements:**
 - H201 Explosive; mass explosion hazard.
- **Precautionary statements:**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 - P250 Do not subject to grinding/shock/friction.
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310 Immediately call a POISON CENTER or doctor/physician.
 - P373 DO NOT fight fire when fire reaches explosives.
 - P370+P380 In case of fire: Evacuate area.
 - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P372 Explosion risk in case of fire.
 - P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 - P405 Store locked up.
 - 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	60 - 92%
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 ⚠ Ox. Sol. 2, H272; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, ⚠ 315; Eye Irrit. 2, H319; STOT SE 3, H335	2 - 18%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (pyrophoric) ⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	0.1 - 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.
- **After swallowing:**
 - Rinse out mouth, seek medical treatment. Call for a doctor immediately.

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- **4.2 Most important symptoms and effects, both acute and delayed**
- **Information for doctor:**
Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident. Particularly for the prevention of pulmonary edema cortisone must be administered by inhalation (depending on the type of drug 5-10 inhalations).
Medical supervision of the patient at least for 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**
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.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Fire extinguishers provide.
Keep respiratory protective device available.
Prevent impact and friction.

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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.

· **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.

· 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.

· Protection of hands:

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.

· 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: Solid.

Colour: Grey

· **Odour:** Mineral-oil-like

· Change in condition:

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous):** Not applicable.

· Ignition temperature:

Decomposition temperature: > 170 °C

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

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· Danger of explosion:	Risk of explosion by shock, friction, fire or other sources of ignition. Heating may cause an explosion.
· Density at 20 °C:	min. 1.05 g/cm ³
· Solubility in / Miscibility with Water:	Soluble
· 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

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

· LD/LC50 values that are relevant for classification:

6484-52-2 ammonium nitrate

Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rat)

7631-99-4 sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen

Oral	LD50	3430 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)

· Primary irritant effect:

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitisation:** No sensitising effects known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

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- **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: LC50> 1000 mg / L 24 h
- **Additional ecological information:**
- **General notes:**
Not known to be hazardous to water.
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 not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **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	Void
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
	
· Class	1 Explosive substances and articles.
· Label	1
· 14.4 Packing group	
· ADR, IMDG	I

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· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · EMS Number:	Warning: Explosive substances and articles. F-A,S-Y
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Transport category · Tunnel restriction code	Not applicable. Not applicable.
· UN "Model Regulation":	-

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**
 - H226 Flammable liquid and vapour.
 - H250 Catches fire spontaneously if exposed to air.
 - H261 In contact with water releases flammable gases.
 - H272 May intensify fire; oxidiser.
 - H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - R10 Flammable
 - R15 Contact with water liberates extremely flammable gases.
 - R17 Spontaneously flammable in air.
 - R22 Harmful if swallowed.
 - R35 Causes severe burns.
 - 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.
- **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
 - 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - Expl. 1.1: Explosives, Division 1.1
 - Flam. Liq. 3: Flammable liquids, Hazard Category 3
 - Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1
 - Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2
 - Ox. Sol. 1: Oxidising Solids, Hazard Category 1
 - Ox. Sol. 2: Oxidising Solids, Hazard Category 2
 - Acute Tox. 4: Acute toxicity, Hazard Category 4

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Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
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.**