



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.11.2011

Revision: 03.11.2011

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

- **Product identifier**
- **Trade name:** Emulex C, Emulex AV, Lambrex 2 Contour, Lawinit 2
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Explosives for commercial use
- **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
- **Emergency telephone number:** Poison Control Center: +43 (01) 406 43 43

2 Hazards identification

- **Classification of the substance or mixture**
- **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.
.....
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.

Label elements

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful
O Oxidising

- **Risk phrases:**
8 Contact with combustible material may cause fire.
9 Explosive when mixed with combustible material.
22 Harmful if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
- **Safety phrases:**
1 Keep locked up.

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- 15 Keep away from heat.
- 16 Keep away from sources of ignition - No smoking.
- 17 Keep away from combustible material.
- 23 Do not breathe gas.
- 23 Do not breathe smoke.
- 24/25 Avoid contact with skin and eyes.
- 60 This material and its container must be disposed of as hazardous waste.

Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 6484-52-2 EINECS: 229-347-8	ammonium nitrate ☒ Xi R36; ☒ O R8-9 ☒ Ox. Sol. 2, H272; ☒ Eye Irrit. 2, H319	50 - 80%
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	10 - 25%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (pyrophoric) ☒ F R11-15 ☒ Flam. Sol. 1, H228; Water-react. 2, H261	0.1-10%

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

4 First aid measures

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.

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.**Information for doctor****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Ammonia (NH₃)

- 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.
- **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 !

6 Accidental release measures

- **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.
Avoid shock or friction
- **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.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Announcing risk of explosion !
- **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.

7 Handling and storage

- **Handling**
- **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.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Fire extinguishers provide.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Store away from oxidizing 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.
A storage up to 60 °C is safe. Product data sheet note
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
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.
- **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, in the cases of direct contact with the explosive mass
Gloves:
· **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 can not 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

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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** plastic to solid ground, covered in plastic cartridges

· **Colour:** White
to gray

· **Odour:** Odourless

· **Change in condition**

· **Melting point/Melting range:** undetermined

· **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.
Heating may cause an explosion.

· **Density at 20 °C:** 1.0 - 1.3 g/cm³

· **Solubility in / Miscibility with**

· **Water:** Soluble

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Conditions to avoid:**

Avoid: heat, flames, sparks.

Shock, friction (explosive hazard)

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

· **Incompatible materials:**

Acids

alkali (lyes)

· **Hazardous decomposition products:**

Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

Ammonia

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11 Toxicological information

• **Information on toxicological effects**

• **Acute toxicity:**

• **Primary irritant effect:**

• **on the skin:** Irritant to skin and mucous membranes.

• **on the eye:** Irritating effect.

• **Sensitization:** No sensitizing 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

12 Ecological information

• **Toxicity**

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

• **Persistence and degradability** Easily biodegradable

• **Behaviour in environmental systems:**

• **Bioaccumulative potential** No further relevant information available.

• **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.

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects** No further relevant information available.

13 Disposal considerations

• **Waste treatment methods**

• **Recommendation**

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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number · ADR, IMDG	UN0241
· UN proper shipping name · ADR · IMDG · IATA	0241 Sprengstoff, Typ E 0241 Explosive, E Verboten
· Transport hazard class(es) · ADR, IMDG, IATA	
· Class · Label	1 Explosive substances and articles. 1
· Packing group · ADR	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Explosive substances and articles. 1.1D F-B,S-X
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Tunnel restriction code	B1000C

15 Regulatory information

- 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.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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

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· **Relevant phrases**

- H228 Flammable solid.
- H261 In contact with water releases flammable gases.
- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
-
- R11 Highly flammable.
- R15 Contact with water liberates extremely flammable gases.
- 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

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