



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

#### 1.1 Product identifier

|                              |                         |
|------------------------------|-------------------------|
| Trade name                   | Emulex 1, APB           |
| Registrierungsnummer (REACH) | Not relevant (mixture). |
| CAS-Nummer                   | Not relevant (mixture). |
| UFI-Code                     | GV00-E0WE-V003-F7MJ     |

|     |  |   |
|-----|--|---|
| 1.1 | <b>Relevant identified uses of the substance or mixture and uses advised against</b> | Explosives Professional use                             |
|     | <b>Relevant identified uses</b>  | Refer to the product information from the manufacturer. |

#### 1.2 Details of the supplier of the safety data sheet

AUSTIN POWDER GmbH  
Weissenbach 16  
8813 St. Lambrecht Austria  
Telephone: +43(0)3585/2251 e-mail: sdb@austinpowder.at

#### 1.3 Emergency telephone number

##### Emergency information service

Werkschutz AUSTIN POWDER GmbH: +43(0)3585/2251

**Austria**

Tel.: +43 1 406 43 43

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Classification |                                   |          |                           |                  |
|----------------|-----------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                      | Category | Hazard class and category | Hazard statement |
| 2.1            | explosive                         | 1.1      | Expl. 1.1                 | H201             |
| 2.14           | oxidizing solid                   | 2        | Ox. Sol. 2                | H272             |
| 3.3            | serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |

For full text of abbreviations: see SECTION 16



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### 2.2 Label elements

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

Signal word Danger



Pictograms GHS01

#### 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.

**P221** Take any precaution to avoid mixing with combustibles.

**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.

**P337+P313** If eye irritation persists: Get medical advice/attention..

**P370+P372+P380+P373** In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

**P401** Store in accordance with local/regional/national/international regulations.

**P501** Dispose of contents/container to local / regional / national / international regulations.

### 2.3 Other hazards

There is no additional information.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.



## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture

| Hazardous ingredients |  |         |  |   |
|-----------------------|--|---------|--|---|
| Name of substance     | Identifier   | Wt.-%   | Classification acc. to GHS               | Pictograms  |
| ammonium nitrate      | CAS-No.<br>6484-52-2<br><br>EC-No.<br>229-347-8<br><br>REACH Reg.-No.<br>01-2119490981-<br>27-xxxx | 50 - 80 | Ox. Sol. 3 / H272<br>Eye Irrit. 2 / H319 |   |



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| Hazardous ingredients |   |         |  |            |
|-----------------------|---|---------|--|------------|
| Name of substance     | Identifier  | Wt.-%   | Classification acc. to GHS               | Pictograms |
| sodium nitrate        | CAS-No.<br>7631-99-4<br><br>EC-No.<br>231-554-3<br><br>REACH Reg.-No.<br>01-2119488221-41 -xxxx | 10 - 25 | Ox. Sol. 3 / H272<br>Eye Irrit. 2 / H319 |            |

for full text of H-phrases: see SECTION 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General notes**

Self-protection of the first aider. Remove victim out of the danger area.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

**Following ingestion**

Rinse mouth. Do not induce vomiting. Call a physician immediately.

**Notes for the doctor**

None.

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

Causes serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

in case of fire: danger of explosion, evacuate area. DO NOT fight fire when fire reaches explosives

##### **Unsuitable extinguishing media**

water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: As a result of heating: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Ammonia (NH<sub>3</sub>). Nitrogen oxides (NO<sub>x</sub>).

Mass explosion hazard.

Oxidizing property.

##### **Hazardous combustion products**

explosion risk in case of fire.

in case of fire: Evacuate area. Fight fire remotely due to the risk of explosion

#### 5.3 Advice for firefighters

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: Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance. DO NOT fight fire when fire reaches explosives.

##### **Special protective equipment for firefighters**

chemical protection suit, self-contained breathing apparatus (SCBA)

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### **For non-emergency personnel**

Remove persons to safety. Ventilate affected area.

Control of dust.

Eliminate all ignition sources if safe to do so. Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

##### **For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

##### **Advice on how to contain a spill**

Take up mechanically.

**Emulex 1, APB****Advice on how to clean up a spill**

Take up mechanically. Collect spillage.  
Observe instructions for use: Danger of explosion.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Do not get in eyes, on skin, or on clothing. Control of dust.

Do not breathe dust.

Handle with care - avoid grinding, shock and friction. Keep container tightly closed.

**Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

Take precautionary measures against static discharge. Handle with care - avoid grinding, shock and friction.

Use explosion-proof electrical/ventilating/lighting/equipment.

**Specific notes/details**

Dust deposits may accumulate on all deposition surfaces in a technical room.

**Handling of incompatible substances or mixtures Keep away from**

organic absorbing material, pulp/paper

**Measures to protect the environment**

Avoid release to the environment.

**Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas. Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities****Flammability hazards**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Do not subject to grinding/shock/friction.

Keep valves and fittings free from oil and grease.

**Incompatible substances or mixtures**

Incompatible materials: see section 10. Observe hints for combined storage.

Keep/store away from clothing/combustible materials. Store away from oxidizing agents.

Take any precaution to avoid mixing with combustibles. Store away from reducing agents.

**Protect against external exposure, such as**

heat, sunlight, strong shocks, static discharges

**Emulex 1, APB****Consideration of other advice**

Keep away from food, drink and animal feeding stuffs.

**Ventilation requirements**

Provision of sufficient ventilation.

**Specific designs for storage rooms or vessels**

Store in accordance with national regulations (relating to the manufacture, storage and use of explosives).

Store in a well-ventilated place. Keep container tightly closed.

**Storage temperature**

Recommended storage temperature: <30 °C

Consult product information brochure (PIB) for further information.

**Packaging compatibilities**

Keep only in original container.

**7.3 Specific end use(s)**

No information available.

### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

| Relevant DNELs of components of the mixture |           |          |                      |                                    |                   |                            |
|---|-----------|----------|----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No    | Endpoint | Threshold level      | Protection goal, route of exposure | Used in           | Exposure time              |
| ammonium nitrate                            | 6484-52-2 | DNEL     | 36 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| ammonium nitrate                            | 6484-52-2 | DNEL     | 5,12 mg/kg bw/day    | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |           |          |                 |                              |
|---|-----------|----------|-----------------|------------------------------|
| Name of substance                           | CAS No    | Endpoint | Threshold level | Environmental compartment    |
| ammonium nitrate                            | 6484-52-2 | PNEC     | 18 mg/l         | sewage treatment plant (STP) |
| sodium nitrate                              | 7631-99-4 | PNEC     | 18 mg/l         | sewage treatment plant (STP) |

**8.2 Exposure controls****Appropriate engineering controls**

General ventilation.

**Emulex 1, APB****Individual protection measures (personal protective equipment)****Eye/face protection**

Wear eye/face protection.

**Hand protection**

| Protective gloves                   |                          |  |
|-------------------------------------|--------------------------|--|
| Material                            | Material thickness       | Breakthrough times of the glove material |
| NBR: acrylonitrile-butadiene rubber | no information available | no information available                 |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Other protection measures**

Protective clothing for use against solid particulates.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143).

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance**

|                 |                                   |
|-----------------|-----------------------------------|
| Physical state  | Solid                             |
| Form            | Solid matter                      |
| Colour          | Grey                              |
| Odour           | Odourless                         |
| Odour threshold | This information is not available |

**Other safety parameters**

|                                       |   |
|---------------------------------------|---|
| pH (value)                            | This information is not available         |
| Melting point/freezing point          | This information is not available Initial |
| boiling point and boiling range point | This information is not available Flash   |
| Evaporation rate                      | Not applicable                            |
| Flammability (solid, gas)             | This information is not available         |
| Explosion limits of dust clouds       | Non-combustible                           |
| Vapour pressure                       | Not determined                            |
| Density                               | This information is not available         |
| Vapour density                        | 1,2 – 1,3 g/cm <sup>3</sup> at 20 °C      |
| Relative density                      | This information is not available         |

**Emulex 1, APB****Solubility(ies)**

Water solubility

Not miscible in any proportion

**Partition coefficient**

n-octanol/water (log KOW)

This information is not available

Auto-ignition temperature

Not relevant

(Solid matter)

Relative self-ignition temperature for solids

This information is not available

Decomposition temperature

This information is not available

**Viscosity**

Kinematic viscosity

Not relevant

(Solid matter)

Dynamic viscosity

Not relevant

(Solid matter)

Explosive properties

Explosive; mass explosion hazard

Oxidizing properties

Oxidizer

**9.2 Other information**

None

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

The mixture contains reactive substance(s). Explosive property. Oxidizing property.

If heated: danger of explosion

Under impact/pressure effect: Danger of explosion.

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

Heating may cause an explosion.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding/shock/friction.

**10.5 Incompatible materials**

acids, bases, oxidizers, Combustible materials, organic materials, reducing agents, powdered metals, copper (base metals and alloys), chlorates, Sulphur

**10.6 Hazardous decomposition products**

As a result of heating: Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Ammonia (NH3).





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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Classification procedure**

If not otherwise specified, the classification is based on: Ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)****Acute toxicity**

Test data are not available for the complete mixture.

| <b>Acute toxicity of components of the mixture</b> |               |                       |                 |               |                |               |
|--|---------------|-----------------------|-----------------|---------------|----------------|---------------|
| <b>Name of substance</b>                           | <b>CAS No</b> | <b>Exposure route</b> | <b>Endpoint</b> | <b>Value</b>  | <b>Species</b> | <b>Source</b> |
| ammonium nitrate                                   | 6484-52-2     | oral                  | LD50            | 2.950 mg/ kg  | rat            | ECHA          |
| ammonium nitrate                                   | 6484-52-2     | dermal                | LD50            | >5.000 mg/ kg | rat            | ECHA          |
| sodium nitrate                                     | 7631-99-4     | oral                  | LD50            | 3.430 mg/ kg  | rat            | ECHA          |
| sodium nitrate                                     | 7631-99-4     | dermal                | LD50            | >5.000 mg/ kg | rat            | ECHA          |

**Skin corrosion/irritation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization Skin sensitization**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Respiratory sensitization**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Carcinogenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Emulex 1, APB****Reproductive toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Specific target organ toxicity - single exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Specific target organ toxicity - repeated exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

**Aquatic toxicity (acute) of components of the mixture**

| Name of substance | CAS No    | Endpoint | Value      | Species                             | Method             | Exposure time |
|-------------------|-----------|----------|------------|-------------------------------------|--------------------|---------------|
| ammonium nitrate  | 6484-52-2 | LC50     | 447 mg/l   | carp (cyprinus carpio)              |                    | 48 h          |
| ammonium nitrate  | 6484-52-2 | EC50     | 490 mg/l   | daphnia magna                       |                    | 48 h          |
| sodium nitrate    | 7631-99-4 | LC50     | >100 mg/l  | rainbow trout (Oncorhynchus mykiss) | OECD Guideline 203 | 96 h          |
| sodium nitrate    | 7631-99-4 | EC50     | 8.609 mg/l | daphnia magna                       | OECD Guideline 202 | 24 h          |

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**Aquatic toxicity (chronic) of components of the mixture**

| Aquatic toxicity (chronic) of components of the mixture |           |                     |             |   |                    |        |               |
|---|-----------|---------------------|-------------|---|--------------------|--------|---------------|
| Name of substance                                       | CAS No    | Endpoint            | Value       | Species   | Method             | Source | Exposure time |
| ammonium nitrate  | 6484-52-2 | ErC50               | >1.700 mg/l | algae   |                    | ECHA   | 10 d          |
| sodium nitrate  | 7631-99-4 | EC50                | >1.000 mg/l | activated sludge of a predominantly domestic sewage | OECD Guideline 209 | ECHA   | 180 min       |
| sodium nitrate  | 7631-99-4 | growth (Eb- Cx) 10% | 180 mg/l    | activated sludge of a predominantly domestic sewage | OECD Guideline 209 | ECHA   | 180 min       |



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| Aquatic toxicity (chronic) of components of the mixture |           |                    |             |   |                    |        |               |
|---|-----------|--------------------|-------------|---|--------------------|--------|---------------|
| Name of substance                                       | CAS No    | Endpoint           | Value       | Species   | Method             | Source | Exposure time |
| sodium nitrate  | 7631-99-4 | growth (Eb-Cx) 20% | 590 mg/l    | activated sludge of a predominantly domestic sewage | OECD Guideline 209 | ECHA   | 180 min       |
| sodium nitrate  | 7631-99-4 | growth (Eb-Cx) 80% | >1.000 mg/l | activated sludge of a predominantly domestic sewage | OECD Guideline 209 | ECHA   | 180 min       |

**12.2 Persistence and degradability****Biodegradation**

No data available.

**Persistence**

No data available.

**12.3 Bio accumulative potential**

Test data are not available for the complete mixture.

**Bio accumulative potential of components of the mixture**

| Name of substance | CAS No    | Log KOW |
|-------------------|-----------|---------|
| sodium nitrate    | 7631-99-4 | -3,8    |

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects**

Data are not available.

**Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 2

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

This material and its container must be disposed of as hazardous waste.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Sewage disposal-relevant information**

Do not empty into drains.

**Waste treatment of containers/packaging**

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.



**Remarks**

Please consider the relevant national or regional provisions.



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### SECTION 14: Transport information

|      |  |   |
|------|--|---|
| 14.1 | UN number  | 0241  |
| 14.2 | UN proper shipping name  | EXPLOSIVE, BLASTING, TYPE E                         |
| 14.3 | Transport hazard class(es)   |   |
|      | Class  | 1.1D  |
| 14.4 | Packing group  | -   |
| 14.5 | Environmental hazards  | -   |
| 14.6 | Special precautions for user   | -   |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code                   | -   |
| 14.8 | Information for each of the UN Model Regulations                                     |   |
|      | <b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).</b> |   |
|      | UN number  | 0241  |
|      | Proper shipping name   | UN0241, EXPLOSIVE, BLASTING, TYPE E, 1.1D, (B1000C) |
|      | Class  | 1   |
|      | Classification code  | 1.1D  |
|      | Danger label(s)  | 1   |
|      |   |   |
|      | Special provisions (SP)  | 617   |
|      | Excepted quantities (EQ)   | E0  |
|      | Limited quantities (LQ)  | 0   |
|      | Transport category (TC)  | 1   |
|      | Tunnel restriction code (TRC)  | B1000C  |
|      | <b>International Maritime Dangerous Goods Code (IMDG)</b>                            |   |
|      | UN number  | 0241  |
|      | Proper shipping name   | UN0241, EXPLOSIVE, BLASTING, TYPE E, 1.1D           |
|      | Class  | 1.1D  |
|      | Marine pollutant   | -   |
|      | Danger label(s)  | 1   |
|      |   |   |
|      | Special provisions (SP)  | -   |
|      | Excepted quantities (EQ)   | E0  |
|      | Limited quantities (LQ)  | 0   |
|      | EmS  | F-B, S-X  |
|      | Stowage category   | 04  |

**Emulex 1, APB****International Civil Aviation Organization (ICAO-IATA/DGR)**  
Carriage prohibited.**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

| <b>Dangerous substances with restrictions (REACH, Annex XVII)</b> |                              |               |                    |
|---|------------------------------|---------------|--------------------|
| <b>Name of substance</b>  | <b>Name acc.to inventory</b> | <b>CAS No</b> | <b>Restriction</b> |
| ammonium nitrate  | ammonium nitrate (AN)        | 6484-52-2     | R58                |
| ammonium nitrate  | inorganic ammonium salts     |               | R65                |

**Legend**

R58 1. Shall not be placed on the market for the first time after 27 June 2010 as a substance, or in mixtures that contain more than 28 % by weight of nitrogen in relation to ammonium nitrate, for use as a solid fertilizer, straight or compound, unless the fertilizer complies with the technical provisions for ammonium nitrate fertilizers of high nitrogen content set out in Annex III to Regulation (EC) No 2003/2003 of the European Parliament and of the Council (10).

**Legend**

R65 1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m<sup>3</sup>) under the test conditions specified in paragraph 4.  
A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or consumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and density.  
A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the maximum permissible loading rate communicated by the supplier is not exceeded.

2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the production of cellulose insulation articles.

3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been authorized by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.

4. Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows:

- (a) the duration of the test shall be at least 14 days instead of 28 days;
- (b) the ammonia gas emission shall be measured at least once per day throughout the test;
- (c) the emission limit shall not be reached or exceeded in any measurement taken during the test;
- (d) the relative humidity shall be 90 % instead of 50 %;
- (e) an appropriate method to measure the ammonia gas emission shall be used;
- (f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of the cellulose insulation mixtures or articles to be tested.

**List of substances subject to authorization (REACH, Annex XIV) / SVHC - candidate list**

None of the ingredients are listed.

**Emulex 1, APB****Seveso Directive**

| 2012/18/EU (Seveso III) |                                       |   |     |       |
|-------------------------|---------------------------------------|---|-----|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements |     | Notes |
| P1a                     | explosives (≠ div. 1.4)               | 10  | 50  | 43)   |
| P8                      | oxidizing liquids and solids          | 50  | 200 | 55)   |

**Notation**

- 43) - unstable explosives or  
 - explosives, Division 1.1, 1.2, 1.3, 1.5 or 1.6, or  
 - substances or mixtures having explosive properties according to method A.14 of Regulation (EC) No 440/2008 and do not belong to the hazard classes organic peroxides or self-reactive substances and mixtures
- 55) oxidizing liquids, category 1, 2 or 3, or oxidizing solids, category 1, 2 or 3

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

None of the ingredients are listed.

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

**Water Framework Directive (WFD)**

Not all ingredients are listed.

| List of pollutants (WFD) |   |        |           |         |
|--------------------------|---|--------|-----------|---------|
| Name of substance        | Name acc. to inventory  | CAS No | Listed in | Remarks |
| sodium nitrate           | Substances which contribute to eutrophication (in particular, nitrates and phosphates)  |        | A)        |         |
| sodium nitrate           | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |
| sodium nitrate           | Metals and their compounds  |        | A)        |         |

**Legend**

- A) Indicative list of the main pollutants

**Emulex 1, APB****Regulation 98/2013/EU on the marketing and use of explosives precursors**

Not all ingredients are listed.

| <b>Explosives precursors which are subject to restrictions</b> |               |                             |                |  |  |
|--|---------------|-----------------------------|----------------|--|--|
| <b>Name of substance</b>                                       | <b>CAS No</b> | <b>Type of registration</b> | <b>Remarks</b> | <b>Limit value</b>                                   | <b>Upper limit value for the purpose of licensing under Article 5(3)</b> |
| sodium nitrate   | 7631-99-4     | Annex II                    |                |  |  |
| ammonium nitrate   | 6484-52-2     | Annex I                     | >16 %          | 16 % w/w of nitrogen in relation to ammonium nitrate | No licensing permitted   |

**Legend**

&gt;16 % In concentration of 16 % by weight of nitrogen in relation to ammonium nitrate or higher

annex I Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

**Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**

None of the ingredients are listed.

**Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients are listed.

**National regulations (Austria)**

Ordinance on combustible liquids (VbF)

Not applicable

(physical state: not liquid)

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.



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Print date: 05.03.2021

Version: 1.0

**SECTION 16: Other information****Abbreviations and acronyms**

| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| ADN        | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR        | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP        | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL       | Derived No-Effect Level   |
| EC50       | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                                      |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| ErC50      | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  |
| Eye Dam.   | Seriously damaging to the eye   |
| Eye Irrit. | Irritant to the eye   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA       | International Air Transport Association   |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO       | International Civil Aviation Organization   |
| IMDG       | International Maritime Dangerous Goods Code   |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50       | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval   |



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| <b>Abbr.</b> | <b>Descriptions of used abbreviations</b>   |
|--------------|---|
| LD50         | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| log KOW      | n-Octanol/water   |
| MARPOL       | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP          | No-Longer Polymer   |
| Ox. Sol.     | Oxidizing solid   |
| PBT          | Persistent, Bioaccumulative and Toxic   |
| PNEC         | Predicted No-Effect Concentration   |
| REACH        | Registration, Evaluation, Authorization and Restriction of Chemicals  |
| RID          | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| SVHC         | Substance of Very High Concern  |
| vPvB         | Very Persistent and very Bioaccumulative  |

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties. Health hazards.  
Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

| <b>Code</b> | <b>Text</b>                       |
|-------------|-----------------------------------|
| H201        | Explosive; mass explosion hazard. |
| H272        | May intensify fire; oxidizer.     |
| H319        | Causes serious eye irritation.    |

**Responsible for the safety data sheet**

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### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.