

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name	Emulex 2 plus, Emulex 2, Emulex 5 Emulex C, Emulex AV
Registrierungsnummer (REACH)	Not relevant (mixture).
CAS-Nummer	Not relevant (mixture).
UFI-Code	3S00-X071-J00K-SW1G

1.1 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Explosives Professional use Refer to the product information from the manufacturer.
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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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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. 6484-52-2 EC-No. 229-347-8 REACH Reg.-No. 01-2119490981- 27-xxxx	50 - 80	Ox. Sol. 3 / H272 Eye Irrit. 2 / H319	

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Hazardous ingredients				
Name of substance	Identifier	Wt.-%	Classification acc. to GHS	Pictograms
sodium nitrate	CAS-No. 7631-99-4 EC-No. 231-554-3 REACH Reg.-No. 01-2119488221-41 -xxxx	10 - 25	Ox. Sol. 3 / H272 Eye Irrit. 2 / H319	 
aluminium	CAS-Nr. 7429-90-5 EG-Nr. 231-072-3 REACH Reg.-No. 01-2119529243-45-xxxx	< 10		

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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Version: 1.0**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 (CO₂).

Ammonia (NH₃). Nitrogen oxides (NO_x).

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 2 plus, Emulex 2, Emulex 5, Emulex C, Emulex AV****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



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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 ³	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
aluminium	7429-90-5	DNEL	3,72 mg/ m ³	human, inhalatory	worker (industry)	chronic - local effects
aluminium	7429-90-5	DNEL	3,72 mg/ m ³	human, inhalatory	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)
aluminium	7429-90-5	PNEC	20 mg/l	sewage treatment plant (STP)

8.2 Exposure controls**Appropriate engineering controls**

General ventilation.



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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	This information is not available Flash
point	Not applicable
Evaporation rate	This information is not available
Flammability (solid, gas)	Non-combustible
Explosion limits of dust clouds	Not determined
Vapour pressure	This information is not available
Density	1,2 – 1,3 g/cm ³ at 20 °C
Vapour density	This information is not available
Relative density	This information is not available



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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.

Acute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Source
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
aluminium	7429-90-5	oral	LD0	>15.900 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.



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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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Version: 1.0**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	

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

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

International Maritime Dangerous Goods Code (IMDG)

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

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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**

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc.to inventory	CAS No	Restriction
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/m³) 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.



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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)	
aluminium	Metals and their compounds		A)	

Legend

- A) Indicative list of the main pollutants

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Version: 1.0**Regulation 98/2013/EU on the marketing and use of explosives precursors**

Not all ingredients are listed.

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
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
aluminium	7429-90-5	Annex II	powd d < 200 µm > 70%		

Legend

- > 70% As a substance or in mixtures containing 70 % or more, by weight, of aluminium and/or magnesium.
- >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
- d < 200 µm With a particle size less than 200 µm.
- powd Powder

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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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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Abbr.	Descriptions of used abbreviations
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)

Code	Text
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.