



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

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Version: 1.0

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

1.1 Product identifier

Trade name	APB 25
Registrierungsnummer (REACH)	Not relevant (mixture).
CAS-Nummer	Not relevant (mixture).
UFI-Code	FG10-Y0R7-000J-2MQ0

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

Explosives, Booster
Professional use
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
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.8	specific target organ toxicity - single exposure	1	STOT SE 1	H370



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Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
4.1C	hazardous to the aquatic environment chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16

2.2 Label elements

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

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.

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.
P234 Keep only in original packaging.
P250 Do not subject to grinding/shock/friction.
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.



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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
Pentaerithryl tetranitrate	CAS No 78-11-5 EC No 201-084-3	25 – < 50	Expl. 1.1 / H201	
Perhydro-1,3,5-trinitro-1,3,5-triazine	CAS No 121-82-4 EC No 204-500-1	20 – < 30	Expl. 1.1 / H201 Acute Tox. 3 / H301 STOT SE 1 / H370 STOT RE 2 / H373	
2,4,6-trinitrotoluene	CAS No 118-96-7 EC No 204-289-6	5 – 10	Expl. 1.1 / H201 Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT RE 2 / H373 Aquatic Chronic 2 / H411	

for full text of H-phrases: see SECTION 16

Gefährliche Bestandteile				
Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Perhydro-1,3,5-trinitro-1,3,5-triazin	-	-	187 mg/kg	oral
2,4,6-Trinitrotoluol	-	-	100 mg/kg 300 mg/kg 0,5 mg/l/4h	oral dermal inhalation: dust/ mist



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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.

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. Take cover at least 500 m away. Persons not involved with firefighting take cover at least 1000 m away.



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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.

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.



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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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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

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
AT	2,4,6-trinitrotoluene	118-96-7	MAK	0,01	0,1	0,04	0,4	H	GKV
AT	Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	MAK	-	1,5	-	3	H	GKV

Notation

H absorbed through the skin

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Pentaerithryl tetranitrate	78-11-5	DNEL	220,4 mg/ m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,4,6-trinitrotoluene	118-96-7	DNEL	0,04 mg/ m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,4,6-trinitrotoluene	118-96-7	DNEL	0,01 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
Pentaerithryl tetranitrate	78-11-5	PNEC	0,292 mg/l	freshwater
Pentaerithryl tetranitrate	78-11-5	PNEC	29,2 µg/l	marine water
Pentaerithryl tetranitrate	78-11-5	PNEC	20 mg/kg	freshwater sediment
Pentaerithryl tetranitrate	78-11-5	PNEC	2 mg/kg	marine sediment
Pentaerithryl tetranitrate	78-11-5	PNEC	3,83 mg/kg	soil
Perhydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	PNEC	7,56 mg/kg	soil
2,4,6-trinitrotoluene	118-96-7	PNEC	1 µg/l	freshwater
2,4,6-trinitrotoluene	118-96-7	PNEC	0,1 µg/l	marine water
2,4,6-trinitrotoluene	118-96-7	PNEC	0,1 mg/l	sewage treatment plant (STP)
2,4,6-trinitrotoluene	118-96-7	PNEC	0,01 mg/kg	freshwater sediment
2,4,6-trinitrotoluene	118-96-7	PNEC	0,001 mg/kg	marine sediment
2,4,6-trinitrotoluene	118-96-7	PNEC	0,01 mg/kg	soil



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8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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 mass
Colour	Red
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
	This information is not available

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Density	1,5 g/cm ³ at 20 °C
Vapour density	This information is not available
Relative density	This information is not available
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.

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, reducing agents, alcoholate

10.6 Hazardous decomposition products

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



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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**

Oral 418,3 mg/kg

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method	Source
Perhydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	oral	LD50	187 mg/kg	rat	Acute Oral Toxicity	ECHA
2,4,6-trinitrotoluene	118-96-7	oral	LD50	660 mg/kg	mouse	OECD Guideline 420	ECHA
2,4,6-trinitrotoluene	118-96-7	inhalation: dust/ mist	LC50	>1,01 mg/l/4h	rat	OECD Guideline 403	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	Exposure time	Value	Species	Method	Source
Pentaerythryl tetranitrate	78-11-5	LC50	96 h	926 mg/l	fathead minnow (Pimephales promelas)	Methods for Acute Toxicity Tests with Fish, Macroinvertebrates, and Amphibians (EPA, 1975)	ECHA
Pentaerythryl tetranitrate	78-11-5	LC50	48 h	292 mg/l	daphnia magna	-	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	LC50	96 h	≤14,97 mg/l	fathead minnow (Pimephales promelas)	ASTM Designation E 729-80	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	EC50	48 h	>17 mg/l	Ceriodaphnia dubia (water flea)	ASTM E 729-80	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	ErC50	72 h	>32,36 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
2,4,6-trinitrotoluene	118-96-7	LC50	96 h	2,7 mg/l	fathead minnow (Pimephales promelas)	-	ECHA
2,4,6-trinitrotoluene	118-96-7	EC50	48 h	9,49 mg/l	daphnia magna	OECD Guideline 202	ECHA
2,4,6-trinitrotoluene	118-96-7	EC50	72 h	0,19 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.



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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	NOEC	28 d	1,4 mg/l	fathead minnow (Pimephales promelas)	EPA OPPTS 850.1400 (Fish Earlylife Stage Toxicity Test)	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	NOEC	7 d	3,64 mg/l	Ceriodaphnia dubia (water flea)	ASTM E 729-80	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	NOEC	72 h	23,6 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
Perhydro-1,3,5trinitro-1,3,5triazine	121-82-4	LOEC	7 d	6,01 mg/l	Ceriodaphnia dubia (water flea)	ASTM E 729-80	ECHA
2,4,6-trinitrotoluene	118-96-7	LC50	10 d	2,2 mg/l	fathead minnow (Pimephales promelas)	-	ECHA
2,4,6-trinitrotoluene	118-96-7	NOEC	48 h	6,25 mg/l	daphnia magna	OECD Guideline 202	ECHA
2,4,6-trinitrotoluene	118-96-7	LOEC	48 h	12,5 mg/l	daphnia magna	OECD Guideline 202	ECHA

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	BCF	Log KOW
Perhydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	2	0,87 (23 °C)
2,4,6-trinitrotoluene	118-96-7	8,4	1,65 (pH value: 6,5, 20 °C)

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.



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12.6 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 3

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 or ID number

ADR/RID/ADN UN0042

IMDG-Code UN0042

14.2 UN proper shipping name

ADR/RID/ADN BOOSTERS

IMDG-Code BOOSTERS

14.3 Transport hazard class(es)

ADR/RID/ADN 1

IMDG-Code 1.1D

14.4 Packing group -

14.5 Environmental hazards -

14.6 Special precautions for user -

14.7 Maritime transport in bulk according to IMO instruments -

14.8 Information for each of the UN Model Regulations

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

Particulars in the transport document UN0042, BOOSTERS, 1.1D, (B1000C)

Classification code 1.1D

Danger label(s) 1



Excepted quantities (EQ) E0

Limited quantities (LQ) 0

Transport category (TC) 1

Tunnel restriction code (TRC) B1000C

International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -

Danger label(s) 1



Excepted quantities (EQ) E0

Limited quantities (LQ) 0

EmS F-B, S-X

Stowage category 03



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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****Restrictions according to REACH, Annex XVII**

None of the ingredients are listed.

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

None of the ingredients are listed.

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)
H3	STOT specific target organ toxicity - single exposure (cat. 1)	50 200	42)

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
- 42) STOT SE category 1

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.

Regulation 98/2013/EU on the marketing and use of explosives precursors

Not all ingredients are listed.

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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.



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Code	Text
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Responsible for the safety data sheet

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