



According to Resolution 801/15 of the Superintendency of Occupational Risks (SRT) and Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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Version: 7

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

1.1 Product identifier

Trade name: **APB BOSTER**

APB20/40/100/225/450/900/1350 - APB500 (seismic)/APB1000 (seismic) - APB100e/225e/450e/900e

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

No further relevant information available.

Application of the substance / the mixture:

Explosives for commercial use.

Open-air mining and quarries

Underground mining

Civil work sites

Demolitions

Adequate for small, medium and big diameters.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

E-Mail: apa.comercial@austinpowder.com

Information Department:

Austin Powder Argentina S.A.- Luis Maggi 770 - Rafaela (Santa Fe) - Phone: + 54 3492 434851 - Fax: + 54 3492 433905 88

1.4 Emergency telephone number:

+54 3492 424775 – 0800 666 2282 (CIPET)

SECTION 2: Hazards identification

2.1 Classification of the mixture

Classification according to SGA – 5° Edition:

Hazard class	Code	Hazard Category
Expl. 1.1	H201	Division 1.1
Oral acute toxicity	H301	3
Dermic acute toxicity	H311	3
Inhalational acute toxicity	H331	3
Systemic specific toxicity due to repeated exposure	H373	2
Acute aquatic	H401	2
Chronic aquatic	H411	2

Human and environmental-specific hazards:

Substances and goods that present a risk of mass explosion.

2.2 Label elements

The product must be labelled according to the established regulations listed in the "Globally Harmonized System of Classification and Labelling of Chemical Products", according to resolution 801/15 of the Labour Risks Superintendency (SRT).



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Hazard pictograms:



GHS01



GHS06



GHS08



GHS09

Signal word: Danger.

Hazard statements:

- H201 Explosive; mass explosion hazard.
- H301 Toxic if swallowed
- H311 Toxic when in contact with the skin.
- H331 Toxic if inhaled.
- H401 Toxic for aquatic organisms
- H411 Toxic for aquatic organisms, with lasting adverse effects.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P234 Keep only in the original packaging.
- P240 Container and receiving equipment earthing and equipotential link.
- P250 Do not subject to grinding/shock/friction.
- P260 Do not breathe dust/fumes/gas/mist/vapour/spray
- P264 Wash hands carefully after handling.
- P270 Do not eat, drink or smoke while handling this product
- P271 Use only in the open air or in a ventilated place.
- P273 Do not spread in the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3 Other hazards

In case of fire: Extreme risk of explosion. Evacuate area. **DO NOT** fight fire when fire reaches explosives.

SECTION 3: Hazards identification

3.1 Substances

Non-applicable

3.2 Mixtures

Chemical characterization

Name	CAS	GHS classification	Concentration
Penthrite	78-11-5	Expl. 1.1, H201	55 – 65 %
2,4,6-trinitrotoluene (TNT)	118-96-7	Expl. 1.1, H201 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic chronic 2, H411	35 – 45 %

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

After inhalation:

Take the person to open air and keep them at rest in a comfortable position for breathing. If impaired breathing, use artificial breathing. Seek medical advice immediately

After skin contact:

Wash with plenty of water and soap for at least 15 minutes. Take off contaminated clothes and footwear. Wash contaminated clothes before using them again. Seek medical advice.

After eye contact:

Wash with plenty of water for 15 minutes, maintaining the eyelids open. Seek medical advice.

After swallowing/ingestion:

Wash mouth with water. Never offer anything to eat to an unconscious person or if the person has seizures. If the person is conscious, do not induce vomiting. Seek medical care immediately

4.2 Most important symptoms and effects, both acute and delayed

TNT ingestion can cause headaches, weakness, anemia or liver failure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

DO NOT fight fires involving Explosives. There is an extreme risk that explosives involved in a fire may detonate, especially if confined. Evacuate the area in all directions for one (1) kilometer or more away for cover if any amount of explosives is involved in a fire. Evacuation is recommended if the initial (incipient) fire, not involving explosives, becomes intense.

5.1 Extinguishing media

Suitable extinguishing agents:

Suitable extinguishing media: do not extinguish fires. Evacuate personnel immediately. Let the fire extinguish by itself.

5.2 Special hazards arising from the substance or mixture

Dangers of unusual fire and explosion: It can explode, especially if exposed to fire or heat when confined and in great amounts. If on fire, it can generate irritating, corrosive and/or toxic gases like carbon oxides and nitrogen oxides (NOx). Do not breathe toxic gases from combustion.

5.3 Advice for firefighters

Protective equipment:

Do not extinguish fires. Use positive pressure self-contained breathing equipment. Firefighter equipment will provide only limited protection

Additional information: Collect contaminated firefighting water separately. It must not enter the sewage system.

Announcing risk of explosion!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate the area and isolate at least 500 meters. Ventilate closed spaces before entering. Avoid all sources of heat, flames, electrostatic discharge. Do not smoke. Avoid all kinds of shock and friction. Do not step on the spilled product

6.2 Environmental precautions

Do not spill in culverts, gutters or drainages.

6.3 Methods and material for containment and cleaning up

Pick up and place spilled material in suitable cardboard or plastic containers for immediate disposal. Do not smoke or initiate fire near the spill area. All the equipment used during the handling of the product must be electrically grounded. Use adequate personal protection equipment

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: Use proper protective equipment.

Precautions: Protect containers from physical damage.

Recommendations on safe handling: Avoid contact with incompatible materials.

Avoid contact with eyes and skin. Avoid inhalation of vapor or mist. Keep away from flames, hot surfaces and sources of ignition. It is prohibited to eat, drink or smoke in the work areas

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store in closed original containers until use, at room temperature and in a dry and well-ventilated place. Keep away from heat, open flames and ignition sources.

Information about storage in one common storage facility:

Technical measures: Store away from incompatible materials and substances.

Storage conditions: Do not expose to sunlight.

Incompatible products: Strong alkali or acids.

Packaging materials: Cardboard boxes and polyethylene bags.

Further information about storage conditions:

No data available

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

Exposure limit values for pure products, according to the local legislation:

Chemical name	CAS N°	CMP	CMP-CPT CMP-C	Critical effects	Annotation
2,4,6-trinitrotoluene (TNT)	118-96-7	0.1 mg/m ³	-	Irritation, liver, blood, eyes	BEI, v.d.

CMP: Maximum permissible time-weighted concentration

CMP - CPT: Maximum concentration allowable for short periods of time

CMP-C: Maximum permissible concentration - Maximum value

BEI: Substances to which Biological Exposition Indexes are assigned.

d.r.: Dermal route. Risk of cutaneous absorption.

According to Resolution 295/2003, of the Ministry of Labour, Employment and Social Security.

Additional information:

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Reduce the number of individuals at the work area to the minimum. Authorized personnel only

Breathing equipment:

Use breathing protection.

Protection of hands:

Use gloves of appropriate material.

Material of gloves:

Neoprene, natural rubber



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Eye protection:

Not required under normal conditions.

Body protection:

Wear waterproof clothing, antistatic protective clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Solid
Color:	Yellow
Odor:	Odourless
· pH-value:	Not available.
· Change in condition	
Boiling point/Boiling range:	Not available
· Flash point:	Not available
· Flammability (solid, gaseous):	Not available
· Ignition temperature:	Not available
Decomposition temperature:	Not available
· Self igniting:	Product is not self-igniting.
· Danger of explosion:	Yes.
· Vapor pressure:	Not applicable.
· Density at 20 °C:	1.65 g/cm ³
· Solubility in / Miscibility with Water:	TNT: 0.013 g/100 g at 20°C
· Solvent content:	
Organic solvents:	
Solids content:	
· 9.2 Other information	No further relevant information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Detonation can happen due to severe shock or excessive heating, particularly, under confinement. Avoid strong contact with oxidizing agents and strong acids.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Explosive when mixed with oxidizing substances.

10.4 Conditions to be avoided

Heat, flames and sparks. Avoid electrostatic discharge, shocks, crashes and friction.

10.5 Incompatible materials

Alkalis, strong acids.

10.6 Hazardous decomposition products

Gaseous nitrogen oxides and carbon oxides in case of fire



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available

Primary irritant effect:

on the skin:

Non-irritating

on the eye:

Non-irritating

Sensitization:

Not available.

Additional toxicological information:

May cause damage to organs (liver) after prolonged or repeated exposures.

Symptoms related to the physical, chemical and toxicological characteristics:

TNT ingestion can cause headaches, weakness, anemia or liver failure

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxicity for fish:

CL50 (Oncorhynchus mykiss) 96 hs: 1.2 mg/L. Trinitrotoluene

CL50 (Lepomis macrochirus) 96 hs: 2.2 mg/L. Trinitrotoluene

Toxicity for other daphnias:

CE50 (Daphnia magna) 48 hs: 6.6 mg/L. Trinitrotoluene

CE50 (Daphnia magna) 48 hs: 49 mg/L. Penthrite.

12.2 Persistence and degradability

Not available.

12.3 Bio-accumulative potential

Not available.

12.4 Mobility in soil

Not available.

Ecotoxic effects:

Type of test Effective concentration Method Assessment:

Additional ecological information:

Not available

General notes:

12.5 Other adverse effects

Toxic for aquatic organisms, with lasting adverse effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

Dispose material according to local or state regulations, under the direct supervision of qualified personnel. Call Austin Powder for recommendations and assistance. This product can be hazardous under certain conditions and it must be picked, tagged and disposed immediately

Uncleaned packaging:


Recommendations: Incineration.



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SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG	UN 0042
· 14.2 UN proper shipping name · ADR · MERCOSUR · IMDG: · IATA	BOOSTERS BOOSTERS BOOSTERS BOOSTERS
· 14.3 Transport hazard class(es) · ADR, IMDG	
	
· Class · Label	1.1 D 1
· IATA · Class	1.1 D (prohibited)
· 14.4 Packing group · ADR, IMDG	Non-applicable
· 14.5 Environmental hazards · Marine pollutant:	No
· 14.6 Special precautions for user · EMS Number: · Danger code (Kemler)	Warning: Do not transport with incompatible materials. Do not use flammable materials for stowage of packages. Do not transport with live animals. F-B, S-X Non-applicable
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not listed.
· Transport/Additional information:	
· ADR · Tunnel restriction code	B1000C
· IATA · Remarks:	Air transport ICAO-IATA/DGR Prohibited.
· UN "Model Regulation":	



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Law 19587 Regulatory decree 351/79 and Decree 295/2003

Law 20429 and decree 302/83

Resolution 801/15 of the Superintendency of Occupational Risks (SRT)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Relevant phrases

H201 Explosive; mass explosion hazard.

H301 Toxic if swallowed

H311 Toxic when in contact with the skin.

H331 Toxic if inhaled.

H401 Toxic for aquatic organisms

H411 Toxic for aquatic organisms, with lasting adverse effects.

Recommended restriction of use

Handling of explosives is permitted only to persons with the appropriate permission

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Expl. 1.1: Explosives, Division 1.1

Ox. Sol. 1: Oxidizing Solids, Hazard Category 1

Ox. Sol. 2: Oxidizing Solids, Hazard Category 2

Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1