



ON A JOURNEY TO A SAFER SOUTH AFRICA



**Criminal Record & Crime Scene Management
Explosives Section**

26 June 2025

Chemical & Allied Industries Association

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 - National Structure;
 - Roles;
 - Classification of dangerous goods;
 - Explosives control cradle to grave; and
 - Registrations.
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LEGAL MANDATE OF THE OF THE SAPS EXPLOSIVES SECTION



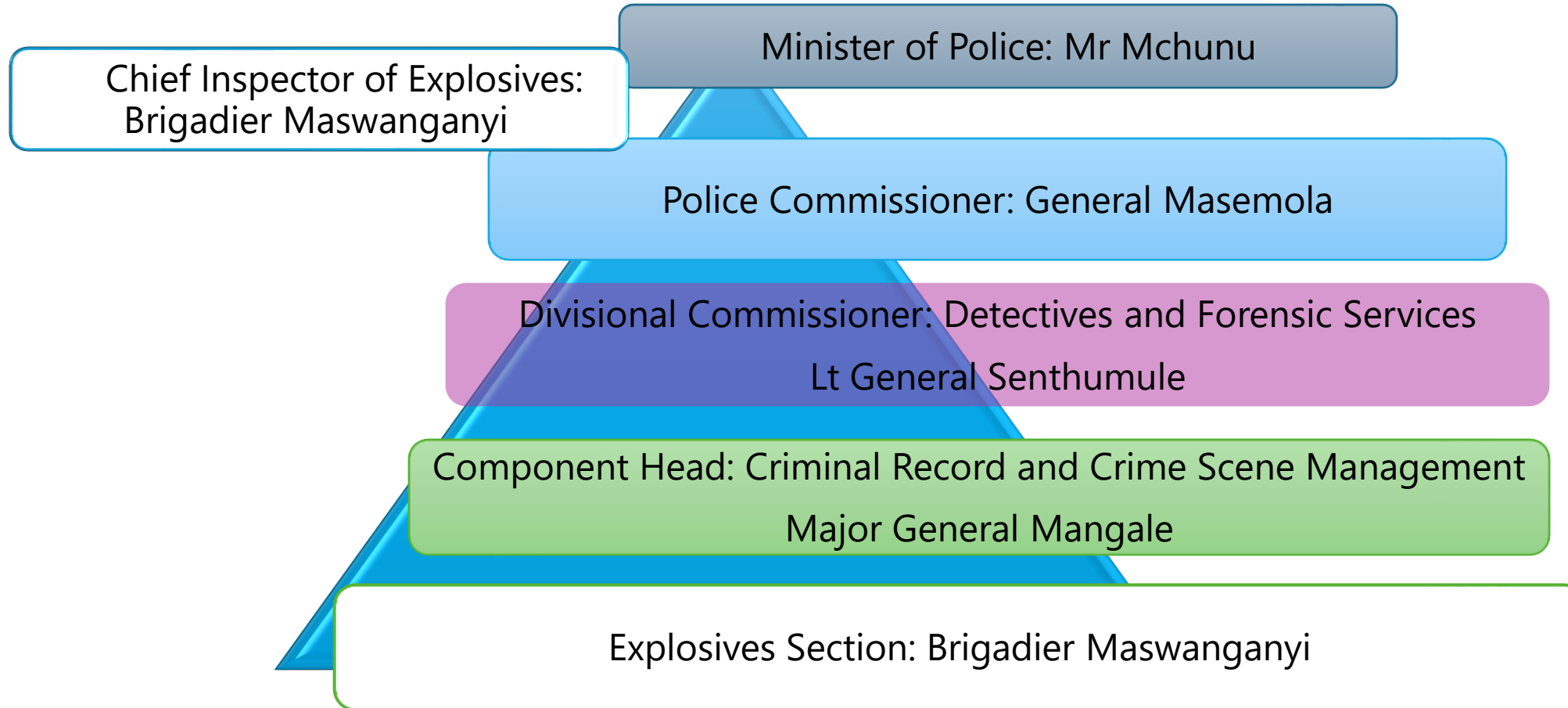
Constitution of South Africa, 1996

South African Police Act,
1995 (Act No 68 of 1995)

Explosives Act, 1956
(Act No 26 of 1956)

Explosives Regulations of
1972

NATIONAL STRUCTURE



EXPLOSIVES SECTION ROLES

Enforce the Laws of South Africa in particular the Explosives Act and the Regulations

Register Manufactures, and Users of Explosives.
Conduct Inspections at the Manufactures/ Users/Mines/Fixed Control Point where explosives are used

Administration, Registration/ Responsible Persons/ Continuous Transport Permits, Magazines, Shafts, Explosives Delivery Bays, Rapid Reload, Mine Surface Activities, Security

Joint Audit with DMRE...
(Possible Joint Audit with DoEL)

ASSOCIATED FUNCTIONS

Explosives Act, 1956 (Act No 26 of 1956) and
Explosives Regulations
Inspector of Explosives

Mine Health and Safety Act and
Regulations
Inspector of Mines

Occupational Health & Safety Act
and Regulations
Inspector

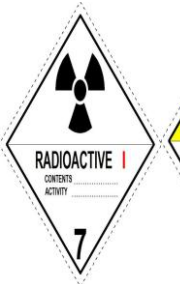
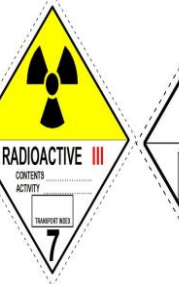
Documentation, Security, Manufacturing Activities, Mine Activities,
Storage, Transport, Use, Health and Safety

CLASSIFICATION, MARKING AND PACKAGING OF EXPLOSIVES IN TERMS OF UNITED NATIONS RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS

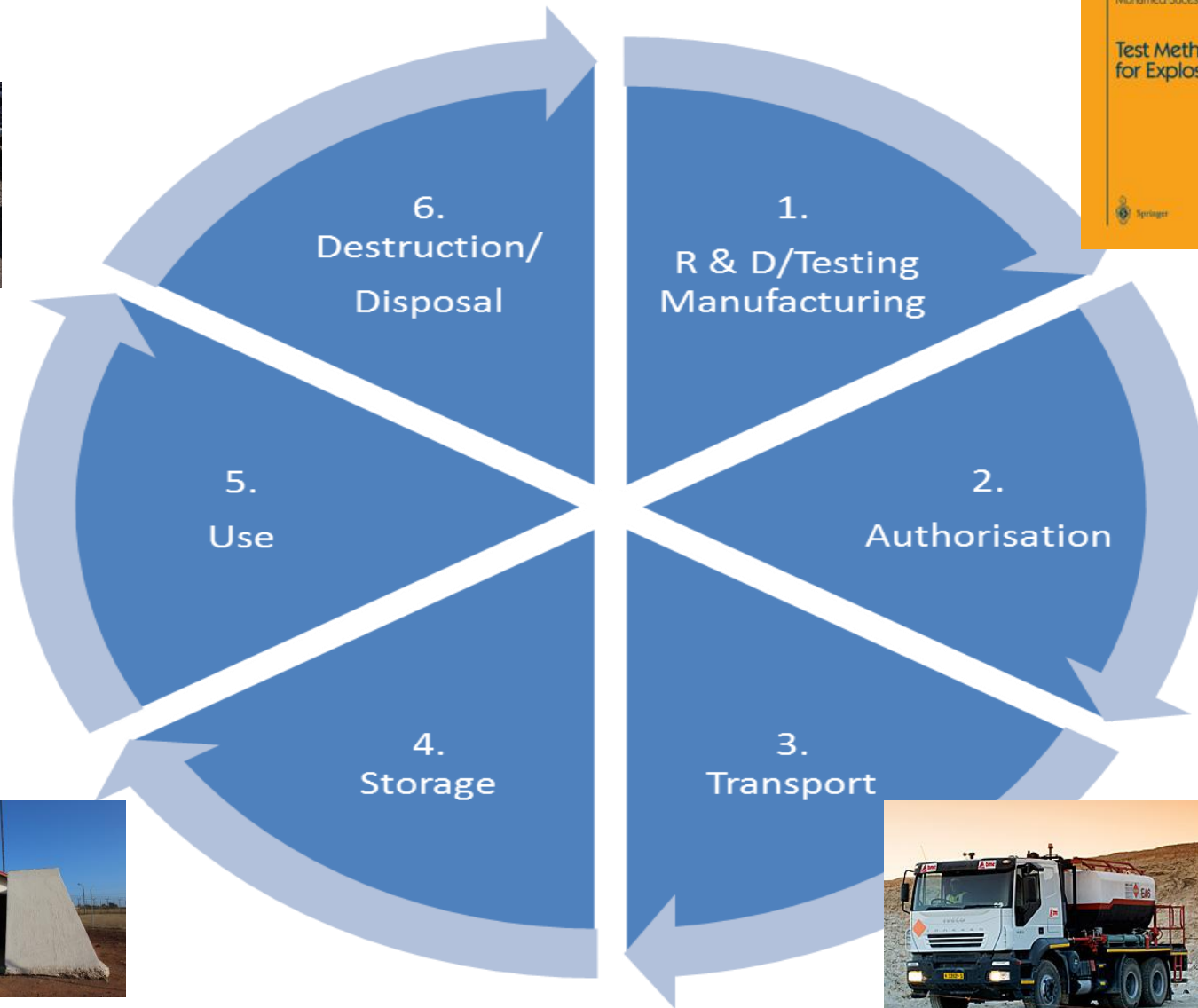
Class Number	Class Name	Class Label
Class 1	Explosives	 
Class 2	Gases	  
Class 3	Flammable liquids	

CLASSIFICATION, MARKING AND PACKAGING OF EXPLOSIVES IN TERMS OF UNITED NATIONS RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS

Class 4	Flammable solids	  
Class 5	Oxidizing substances and organic peroxides	  
Class 6	Toxic and infectious substances	 

Class 7	Radioactive material	   
Class 8	Corrosive substances	
Class 9	Miscellaneous	

Ideal explosives control cycle – From cradle ... to grave



Research & Development/ Testing/Manufacturing



- Explosives factories and testing laboratories/facilities must be licensed as explosives workplaces in terms of the OHS Act and registered with the CIE
- Explosives tests are prescribed in chapter 14 of the Explosives Regulations
- Explosives factories are inspected at least once per quarter by local inspector

Research & Development/ Testing/Manufacturing



SOUTH AFRICAN POLICE SERVICE
EXPLOSIVES SECTION
CHIEF INSPECTOR OF EXPLOSIVES

EXPLOSIVES AUTHORISATION CERTIFICATE

CERTIFICATE NUMBER
ZA-X 537A1

Product Name: **Buffalo™ Booster 400 g**
Proper Shipping Name: **BOOSTERS without detonator**
SIN/UN Number: **UN 0042**
UN Classification Code: **1.1D**
Packaging Certification: **u 4G/Y28/S* ZA/TE7571**
Manufacturer: **AEL Mining Services Limited, Modderfontein, South Africa**
References: **AEL Mining Services Limited's applications dated 2015-04-01 and 2017-03-29**
Date Issued: **2017-03-30**


**COLONEL
CHIEF INSPECTOR OF EXPLOSIVES
JJ VAN STADEN**

This certificate supersedes ZA-X537 dated 2015-04-16

* Denotes: Year the packaging is manufactured
Classification of an article or substance is based on the guidelines provided in terms of the following:
South African documents

- Explosives Act (Act No 26 of 1956) and Regulations
- SANS 10228: The identification and classification of dangerous substances and goods
- SANS 10229: Packaging and large packaging for road and rail
International documents:
- United Nations Recommendations on the Transport of Dangerous Goods - Manual of Tests and Criteria
- United Nations Recommendations on the Transport of Dangerous Goods - Model Regulations
- International Air Transport Association - Dangerous Goods Regulations
- International Maritime Dangerous Goods Code

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- Unique ZA-X number
- Product name
- Proper shipping name
- UN number
- UN classification code
- Packaging certification
- Manufacturer
- Reference documents

Transport (Chapters 4, 5 & 6 of Explo Regs)



- Road vehicles must be licensed
- Vehicles must be marked in terms of the National Road Traffic Act
- Permits are required to transport explosives between suppliers and magazines, dealers or places of use
- Vehicles to be inspected at least once per year
- Permit types:
 - Temporary transport permit (TTP);
 - Continuous transport permit (CTP);
 - Import permit (IMP);
 - Export permit (EXP); and
 - Transit permit (TRP)

LIMITED QUANTITIES OF EXPLOSIVES EXEMPT FROM EXPLOSIVES VEHICLE LICENSING REQUIREMENTS FOR ROAD TRANSPORT

Regulations 14(8), 30(2)(b), 82, 102(1), 110(8), 111(9), 118(1) and 120(8) of the Explosives Regulations made under section 33 of the Explosives Act, 2003 (Act No 15 of 2003)

The following limited quantities of explosives are exempt from the licensing requirements for road transport, as required in regulation 30(1):

Type of explosives	Type of use	Maximum quantity (Gross mass)	Additional permits/licences/certificates/registers required *
Pyrotechnic signals of Classes 1.4G and 1.4S (UN 0191, UN 0197, UN 0312, UN 0373, UN 0403, UN 0404, UN 0405, UN 0505, UN 0506, UN 0507)	Private use	5 kg	None
	Retail and distribution	100 kg	DL and CTP
	Destruction or disposal	100 kg	TTP/CTP
Smokeless powder for reloading of ammunition of Class 1.3C (UN 0161) and Class 1.4C (UN 0509)	Private use	10 kg	FL
	Retail and distribution	100 kg	DL or FTP and CTP
Black powder of Class 1.1D (UN 0027) (Only if packed in terms of regulation 16(5)) and black powder substitutes of Class 1.3G (UN 0478)	Private use	5 kg	BPP
	Retail and distribution	20 kg	DL or FTP and CTP
	Special effects	5 kg	SPP
Consumer fireworks of Classes 1.4G (UN 0336) and 1.4S (UN 0337)	Private with public transport	10 kg	None
	Private use	40 kg	None
	Retail and distribution	500 kg	DL
Railway track signals of Classes 1.3G (UN 0492), 1.4G (UN 0493) and 1.4S (UN 0193)	Issued for use	30 units	Control register
	Distribution	58 kg	CTP and control register
The following Class 1.4S items: - Igniters (UN 0454); - Rock breaking cartridges (RBC) (UN 0323, UN 0432); - Power device, blank or industrial cartridges (UN 0014, UN 0323)	Industrial use Retail and distribution	250 kg	TTP/CTP and control register
Ammunition and cartridges for use in devices exempted in terms of Section 5 of the Firearms Control Act, Act No 60 of 2000 if classified under Class 1.4S	Retail and distribution	1000 kg	CTP
	Private use	15 kg	None
Model rocket motors and igniters of Hazard Division 1.4	Retail and distribution	1000 kg	CTP
	Private use	100 units	MRP or HRP
Ammonium nitrate in Class 5.1 (UN 1942)	Industrial use	250 kg	Certificate TTP/CTP

Storage (Chapters 7, 8 & 9 of Explo Regs)



- Explosives magazine licences
- Magazine master assessment and registration
- Dealers licences
- Indoor magazines for certain types of explosives
- Temporary surface storage facilities at mines, such as shaft delivery areas
- Storage facilities are inspected at least once a quarter

Use (Chapter 10 of Explo Regs)



- Blasting permits are issued to registered civil blasters to use explosives
- Blasting for mining, not regulated in terms of the Explosives Act
- Blasting permits are also issued for the destruction of explosives
- Other permits issued for use:
 - Fireworks display permits;
 - Stage effect permits;
 - Special effect permits; and
 - Black powder permits

Destruction/Disposal



- Unserviceable explosives must be disposed of in a safe manner:
- Detonation;
- Burning; or
- Broken down into parts for re-use, recycling, disposal
- Blaster must be in possession of a blasting permit to destroy explosives



Blasting cartridges
destroyed by burning

REGISTRATIONS MANUFACTURING EXPLOSIVES

- Submit company letter on a **company letter head**
- Indicate explosives are to be
- (a) manufactured for **testing purposes**;
- (b) prepared for **immediate use**;
- Must supply full particulars purpose of such test;
- Must conduct a **risk assessment** to address all significant risks
- **report** on such risk assessment
- Physical location and description of the site
- Details of **supplier sources** for mixing;
- Nature and composition of the explosive;
- Limiting percentages of each of the ingredients of the explosive;
- **Equipment** to be used as well as any ancillary equipment
- ***Track and trace of end product.***
- Three copies of a **plan or plans** of equipment showing –
- (i) the layout; (ii) the materials of construction; (iii) the position and capacity of any of the containers

REGISTRATIONS TERTIARY EDUCATIONAL INSTITUTIONS AND LABORATORIES

- A written application to manufacture explosives, must be made by the **manager of the laboratory**, to the Chief Inspector;
 - The name under which the laboratory will operate;
 - Proof of a tertiary qualification in chemistry for the scientist in charge of the manufacture of explosives;
 - The nature of the work carried out in the laboratory; and
 - A written application for a magazine licence in terms of section.
- A written application to manufacture explosives must be made to the Chief Inspector by the **departmental head of a tertiary educational institution**;
 - The location and description of the specific building and laboratory or laboratories where the explosives are to be manufactured, including a floor plan;
 - The type and quantities of explosives to be manufactured;
 - Restriction to number of persons;
 - Safe methods of disposing of the explosives;
 - Security measures; and
 - Storage plans or application for a magazine.
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Colonel Yengwa
Colonel Van Staden
Lt Col Peters
Lt Col Mbotyeni

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