

Your ref: Cash
Our ref: 2335/06-646
Enquiries: F du Toit
Tel: (012) 428-6376
Fax: (012) 428-6854
Date: 13 December 2006

Liquid Bullet (Pty) Ltd
Attention: Mr Jason Keogh
Postmed Suite 22
Private Bag X19
GARDEN VIEW
2047

Dear Sirs

300 g LIQUID BULLET PEPPER SPRAY

Further to your request the cannister with the pepper spray was evaluated to determine the possible use in hazardous areas.

The cannister was intended to be used/installed in such a way to help prevent the unlawful entry into certain premises.

The ingredients of the Pepper Spray canister was detailed in a Gas Analysis from 'Pure-Gas ' (suppliers of Ozone friendly propellants) and ISP Chemicals.

The density of the ingredients was evaluated and found to be heavier than air. In practice that means that the hazardous gases used as propellants will tend to float down to floor level.

Hazardous ingredients used are Butane - density level 2.05; Propane - density level 1.56.

In SANS 1020 specification it is claimed that the density of fuel is heavier than air. The hazardous level of the gas is accepted at floor level taking the ventilation of the area in consideration.

The Lower Explosive Level(LEL) of Butane is 1.4% and Propane is 2.15%.

The Higher Explosive Level(HEL) of Butane is 9.3% and Propane is 13.5%.

In a 300gram cannister the percentage Butane is 33.3% and the Propane is 60.67%.

The approximate volume on a 300mg cannister is 300mL.

During activation the 'Pepper - Spray' is only activated for 6 seconds.

The percentage hazardous gas released during that period will not activate an energy source when taken the percentage of explosive gas in consideration.

No objection can be seen against the use of the pepper spray in hazardous areas provided the area have ample ventilation.

/Please...

SABS COMMERCIAL (Pty) Ltd - Reg. No. 2000/013581/07 Website: www.sabs.co.za E-mail: info@sabs.co.za
Directors: Mr Martin Kuscus, Ms Cremilde Guedes, Ms Bronwen Phillips, Dr John Carstens, Dr Nombasa Tsengwa

Gauteng Head Office

1 Dr Lategan Road Groenkloof
Private Bag X191 Pretoria 0001
Tel: +27 (0) 12 428-7911
Fax: +27 (0) 12) 344-1568

Western Cape:

Liesbeek Park Way Rosebank Cape Town
PO Box 615 Rondebosch Cape Town 7701
Tel: +27 (0) 21 689-5511
Fax: +27 (0) 21 686-6375

Eastern Cape:

30 Kipling Road (cnr. Diaz and Kipling Roads)
PO Box 3013 North End Port Elizabeth 6056
Tel: +27 (0) 41 391-8400
Fax: +27 (0) 41 391-8427

Kwazulu Natal:

15 Garth Road Waterfall Park
PO Box 30087 Mayville 4058
Tel: +27 (0) 31 203-2900
Fax: +27 (0) 31 203-2907