Base Bleed Motor

#### Company Identification

Rheinmetall Denel Munition (RDM)

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#### **Company Identification**

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South Africa

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## 1. PRODUCT IDENTIFICATION

Trade name:

Base Bleed Motor

Chemical family:

-

Chemical name:

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Synonyms:

Base Bleed Motor; Drag Reducing Device

Chemical abstract no.:

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NIOSH no.:

-

Hazchem code:

-

UN no.:

UN 0272

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components:

Ammonium Perchclorate and Hydroxy-Terminated Polybutadiene

(AP/HTPB) based composite propellant grain.

Magnesium/Teflon/Viton (MTV) pyrotechnic igniter.

EEC classification:

N/A

R Phrases:

See §15

# 3. HAZARDS IDENTIFICATION

Main hazard:

Fire

Physical hazard:

Highly flammable.

Flammability:

Highly flammable.

Chemical hazard:

None

Biological hazard:

None

Reproductive hazard:

None

Health effects - eyes:

None

Health effects - skin:

None

Health effects - ingestion:

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N/A

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Health effects – inhalation:

N/A

Carcinogenicity:

N/A

Mutagenicity:

N/A

Neurotoxicity:

N/A

#### 4. FIRST AID MEASURES

Product in eye: N/A
Product on skin: N/A
Product ingested: N/A
Product inhaled: N/A

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water

Special hazards: Cool fire down to prevent excess heat generation.

Protective clothing: Protective clothing should be worn.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Prevent build up of static electricity at all times by ensuring good

conductivity during handling.

Environmental precautions: Remove possible ignition sources. Keep containers cool when exposed

to fire. Use non-sparking hand tools.

Small spills: N/A
Large spills: N/A

## 7. HANDLING AND STORAGE

Suitable Material: Package in non-static, dry containers.

Handling/storage precautions: Store at room temperature. Exposure to elevated temperatures (>75°C)

should be avoided.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: N/A

Engineering control measures: N/A

Personal protection - respiratory: None

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Personal protection – hands: None

Personal protection – eyes: None

Personal protection – skin: None

Other protection: None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Conical aluminium or steel cylindrical unit, 100 to 155 mm in diameter

and 60 to 120 mm in length.

Odour: N/A

pH: N/A

Boiling point: N/A

Melting point: N/A

Flash point: N/A

Flammability: Will burn if exposed to open flame.

Auto-flammability: Can ignite and burn (deflagrate) if exposed to extreme temperatures for

extended periods of time (slow/fast cook-off).

Explosive properties: Propellant and igniter material may ignite due to impact/friction.

Vapour pressure: N/A

Density: N/A

Solubility - water: N/A

Solubility - solvent: N/A

#### 10. STABILITY AND REACTIVITY

Conditions to avoid: Open flames and sources of ignition. Prolonged exposure to high

temperature and high humidity conditions. Corrosive environments.

Incompatible materials: Strong acids and bases.

Hazardous decomposition products: Main combustion gases generated during combustion of the charge are

 $N_2$ , CO, CO<sub>2</sub>,  $H_2$ , HCl.

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity: N/A

Skin and eye contact: N/A

Chronic toxicity: N/A

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Carcinogenicity: N/A

Mutagenicity: N/A

Reproductive hazards: N/A

#### 12. ECOLOGICAL INFORMATION

Aquatic toxicity - fish: No environmental toxicity if used or disposed of properly.

Aquatic toxicity - daphnia:

Aquatic toxicity - algae:

Biodegradability:

Bio-accumulation:

Mobility:

German wgk:

#### 13. DISPOSAL CONSIDERATION

Disposal methods: Dispose by means of the train method for burning loose propellant.

Disposal of packaging: Burn in an open fire in an allocated "safe" area.

#### 14. TRANSPORT INFORMATION

UN no.: UN 0272

Substance identity no.: SIN 0272

ADR/RID class:

ADR/RID item no.:

ADR/RID hazard identity no.:

IMDG - Shipping name: Charges, Propelling

IMDG - Classification: 1.3C

IMDG - Packaging group:

IMDG - Marine pollutant: No

IMDG – EMS no.: 1-03

IMDG - MFAG table no.:

IATA - Shipping name: Charges, Propelling

IATA - Class: 1.3C

IATA - Subsidiary risk(s): Forbidden on commercial airlines.

ADNR - Class: -

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UK - Description:

UK - Emergency action class: -

UK - Classification: -

Tremcard no.:

#### 15. REGULATORY INFORMATION

EEC Hazard Classification: Highly flammable.

Risk Phrases: R11: Highly flammable.

Safety Phrases: S15: Keep away from heat.

S16: Keep away from sources of ignition – no smoking.

S17: Keep away from combustible materials.

S35: This material and its container must be disposed of in a safe way.

S41: In case of fire and/or explosion, do not breathe fumes.

S43: In case of fire, use water.

#### 16. OTHER INFORMATION

No other information is available for this record.

#### 17. EXCLUSION OF LIABILITY

Information contained in this document is furnished in pursuance of the requirements of the South African Occupational Health and Safety Act (85/1993). The receiver of the product must meet existing laws and regulations at his own responsibility.

Any reliance on such information for any purpose other than the above-mentioned will be done at the purchaser's own risk. The supplier does not warrant, or make any representations, as to the fitness of such products for specific purposes, processes or applications. The supplier will not be liable for any loss arising out of, or by reason of, reliance on information contained in this document.

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