

ANNEXURE 1

MATERIAL SAFETY DATA SHEET

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COMPANY DETAILS

Supplier Name: Unique Welding Alloys
Address: 19 Van Dyk Road, Boksburg
Tel: 011 841 9800
Emergency Tel Nr:
Telex:
Fax:

1. Product and Company Identification: (Page 1 may be used as an emergency safety sheet)

Trade name: *Thermamax silicone Anti-Spatter 400ml or 500ml*
Chemical family: Aerosol containing a polydimethylsiloxane
Chemical name: Polydimethylsiloxane
Synonyms: NA
Chemical abstract No: None
NIOSH no: None
Hazchem code: NA
UN no: 1950

2. Composition:

Hazardous components: Polydimethylsiloxane CAS 63148-53-8 UN None 15 – 20%
LPG (propellant) CAS 68476-85-7 UN None 80 - 90%
EEC Classification: Not listed
R Phrases: R36

3. Hazards Identification:

Main Hazard: Flammability of aerosol propellant
Flammability: Only of aerosol propellant
Chemical Hazard: Stable
Biological Hazard: Not determined
Reproduction Hazard: Not determined
Eye effect: **Eyes:** Irritant
Health effects: **Skin:** None
Health effects: **Ingestion:** Low ingestion hazard
Health effects: **Inhalation:** None
Carcinogenicity: Not determined
Mutagenicity: Not known
Neurotoxicity: Not known

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4. First Aid Measures:

Product in Eye: No first aid should be needed.

Product on Skin: No first aid should be needed.

Product Ingested: No first aid should be needed.

Product Inhaled: No first aid should be needed.

5. Fire Fighting Measures: (Of aerosol propellant only)

Extinguishing Media: Foam / CO₂ / Halon / Dry chemical.

Special Hazards: Keep aerosol containers cool using water spray. Use proper equipment to protect personnel from bursting containers.

Protective Clothing: Wear positive pressure self-contained breathing apparatus & protective gloves

6. Accidental Release Measures:

Personal Precautions: Restrict access to area. Provide adequate protective equipment & ventilation.

Environmental Precautions: Remove sources of flame & notify environmental authorities

Small Spills: Absorb spill with inert material such as vermiculite. Place in in chemical waste containers for later disposal.

Large Spills: Absorb spill with inert material such as vermiculite. Place in in chemical waste containers for later disposal.

7. Handling and Storage:

Suitable Material: None

Handling/Storage Precautions: Do not store near fire, sparks or flame. Do not puncture or or incinerate aerosol containers. Exposure to temperatures above 45°C may cause the containers to burst.

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8. Exposure Controls/Personal Protection:

Occupational Exposure Limits: Not known
Engineering Control Measures: Only small aerosols under normal use. So use adequate local ventilation
Personal Protection Respiratory: Not necessary when used as expected with small aerosol.
Personal Protection Hands: Not necessary when used as expected with small aerosol.
Personal Protection Eyes: Not necessary when used as expected with small aerosol.
Personal Protection Skin: Not necessary when used as expected with small aerosol.
Other Protection: None

9. Physical and Chemical Properties:

Appearance: Aerosol containing light coloured liquid.
Odour: Slight
pH (1%): NA
Boiling point: Contents w/o propellant >65°C
Melting point: NA
Flash point: *Does not apply to an aerosol.*
Contents: -> 250 °C
Flammability: Does not apply to an aerosol
Auto Flammability: NA
Explosive Properties: Contents NA
Oxidizing Properties: Aerosol propellant will react with oxidisers
Vapour Pressure: ND
Density: 0.97
Solubility Water: Not soluble in water
Solubility Solvent: ND
Solubility Coefficient: ND
Neurotoxicity: ND

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10. Stability and Reactivity:

Conditions to avoid: Avoid flames & ignition sources, only for aerosol propellant.;

Incompatible material: oxidisers

Hazardous decomposition products: Hydrocarbons, Silica, Carbon compounds

11. Toxicological Information:

Acute Toxicity: ND
Skin and Eye Contact: ND

Chronic Toxicity: ND

Carcinogenicity: ND

Mutagenicity: ND

Reproductive hazards: ND

12. Ecological Information:

Aquatic Toxicity: Fish: No ecological problems are to be expected with aerosols

Aquatic Toxicity: Daphnia: No ecological problems are to be expected with aerosols

Aquatic Toxicity: Algae: No ecological problems are to be expected with aerosols

Biodegradability: No ecological problems are to be expected with aerosols

Bio-accumulation: No ecological problems are to be expected with aerosols

Mobility: No ecological problems are to be expected with aerosols

German wgk: ND

13. Disposal Considerations:

Disposal Methods: As per local authority.

Disposal Packaging: As per local authority.

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14. Transport Information:

UN no:	1950
Substance identity No:	Aerosols Flammable (Each not exceeding 1000ml capacity) Division 2.1
ADR/RID class:	Aerosols Flammable (Each not exceeding 1000ml capacity) Division 2.1
ADR/RID item no:	Aerosol
ADR/RID hazard identity no:	—
IMDG – Class:	2.1
IMDG – Packing Group:	Aerosol
IMDG – Marine Pollutant:	–
IMDG – EMS no:	2-13
IMDG – MFAG table no:	620
IMDG – Shipping name:	Aerosols Flammable (Each not exceeding 1000ml capacity) Division 2.1
IATA – Shipping name:	Aerosols Flammable (Each not exceeding 1000ml capacity) Division 2.1
IATA – Class:	2.1
IATA – Subsidiary risk(s):	None
ADNR –	
UK – Description:	Aerosols Flammable (Each not exceeding 1000ml capacity) Division 2.1
UK – Emergency action class:	ND
UK – Classification:	ND

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15. Regulatory Information:

EEC hazard classification: Aerosols Flammable (Each not exceeding 1000ml capacity)
Division 2.1

Risk Phases: R36

Safety Phases: S16-25-33-51 S47-45°C

National Legislation: ND

16. Other Information:

The information provided in this safety data sheet, is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.