

# ANNEXURE 1

## MATERIAL SAFETY DATA SHEET

**No:** 1  
**Date Issued:** 18 September 2017  
**Revision** 1B  
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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:** *Diffutherm Penetrant*      **Chemical abstract No:** None  
**Chemical family:** Aerosol containing a mixture of paraffins.      **NIOSH no:** None  
**Chemical name:** Mixture of paraffins      **Hazchem code:** 3Y  
**Synonyms:** NA      **UN no:** 1950

### 2. Composition:

**Hazardous components:** Light Aromatic Naptha CAS 64742-95-6 UN 1268 20 - 30%  
Paraffin CAS 8008-20-6 UN 1223 15 - 25%  
Xylene CAS 1330-20-7 UN 1307 3.5 - 4.5%  
LPG (propellant) CAS 68476-85-7 UN ----- 30 - 50%  
**EEC Classification:** Not listed  
**R Phrases:** R11-36-65-66-67

### 3. Hazards Identification:

**Main Hazard:** Flammable.  
**Flammability:** Flammable.  
**Chemical Hazard:** Can react with oxidisers.  
**Biological Hazard:** Not determined  
**Reproduction Hazard:** Not determined  
**Eye effect:** **Eyes:** Irritant  
**Health effects:** **Skin:** Irritant  
**Health effects:** **Ingestion:** Harmful if ingested  
**Health effects:** **Inhalation:** Harmful if inhaled  
**Carcinogenicity:** Not determined  
**Mutagenicity:** Not known  
**Neurotoxicity:** Not known

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### 4. First Aid Measures:

**Product in Eye:** Flush with water for 15 minutes

**Product on Skin:** Flush with water for 15 minutes, remove contaminated clothing.

**Product Ingested:** Do not induce vomiting. Get medical help.

**Product Inhaled:** Remove from contaminated area, Get medical help.

### 5. Fire Fighting Measures:

**Extinguishing Media:** Foam / CO<sub>2</sub> / 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:** Fire resistant bung wall.

**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:

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

### 9. Physical and Chemical Properties:

<b>Appearance:</b>	Aerosol containing light colored liquid.
<b>Odour:</b>	General solvent
<b>pH (1%):</b>	NA
<b>Boiling point:</b>	Contents w/o propellant >137°C
<b>Melting point:</b>	NA
<b>Flash point:</b>	<b><i>Does not apply to an aerosol.</i></b> Contents: >38 °C
<b>Flammability:</b>	Flammable
<b>Auto Flammability:</b>	NA
<b>Explosive Properties:</b>	UEL: 9.5% LEL: 0.7%
<b>Oxidizing Properties:</b>	Will react with oxidisers
<b>Vapour Pressure:</b>	ND
<b>Density:</b>	0.85
<b>Solubility Water:</b>	Slightly soluble in water
<b>Solubility Solvent:</b>	ND
<b>Solubility Coefficient:</b>	ND
<b>Neurotoxicity:</b>	ND

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#### 10. Stability and Reactivity:

**Conditions to avoid:** Avoid flames & ignition sources

**Incompatible material:** oxidisers

**Hazardous decomposition products:** Hydrocarbons, COx

#### 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:** Not listed

#### 13. Disposal Considerations:

**Disposal Methods:** As per local authority.

**Disposal Packaging:** As per local authority.

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### 14. Transport Information:

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

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#### 15. Regulatory Information:

**EEC hazard classification:** Harmful Xn  
**Risk Phases:** R11-36-65-66-67  
**Safety Phases:** S16- 23-24-33-51 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.