

# ANNEXURE 1

## MATERIAL SAFETY DATA SHEET

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### COMPANY DETAILS

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

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

**Trade name:** *Diffutherm Developer*      **Chemical abstract No:** None  
**Chemical family:** Aerosol containing a mixture of solvents      **NIOSH no:** None  
**Chemical name:** Mixture of solvents      **Hazchem code:** 3Y  
**Synonyms:** NA      **UN no:** 1950

#### 2. Composition:

**Hazardous components:** Trichloroethylene CAS 79-01-6 UN 1710 30 – 35 %  
Dichloromethane CAS 75-09-2 UN 1593 15 – 18 %  
4-methylpentan-2-one CAS 108-10- UN 1245 3 – 4 %  
LPG (Propellant) CAS 68476-85-7 UN 1013 5 – 6 %  
**EEC Classification:** Not listed  
**R Phrases:** R11-20-21-22-36-66-67

#### 3. Hazards Identification:

**Main Hazard:** Harmful  
**Flammability:** Will burn with difficulty but not 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 / 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 chemical waste containers for later disposal.  
**Large Spills:** Absorb spill with inert material such as vermiculite. Place 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 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 >100°C
<b>Melting point:</b>	NA
<b>Flash point:</b>	<b><i>Does not apply to an aerosol.</i></b> Contents: NA
<b>Flammability:</b>	Not flammable
<b>Auto Flammability:</b>	NA
<b>Explosive Properties:</b>	NA
<b>Oxidizing Properties:</b>	Will react with oxidisers
<b>Vapour Pressure:</b>	ND
<b>Density:</b>	1.42
<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:** Poor ventilation when used

**Incompatible material:** oxidisers

**Hazardous decomposition products:** Hydrocarbons, Chlorine

#### 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:

**UN no:** 1950

**Substance identity No:** Aerosols  
Class 2

**ADR/RID class:** Aerosols  
Class 2

**ADR/RID item no:** Aerosol

**ADR/RID hazard identity no:** —

**IMDG – Class:** 2

**IMDG – Packing Group:** Aerosol

**IMDG – Marine Pollutant:** —

**IMDG – EMS no:** 2-13

**IMDG – MFAG table no:** 620

**IMDG – Shipping name:** Aerosols  
Division 2

**IATA – Shipping name:** Aerosols  
Division 2

**IATA – Class:** 2

**IATA – Subsidiary risk(s):** None

**ADNR –**

**UK – Description:** Aerosols  
Division 2

**UK – Emergency action class:** ND

**UK – Classification:** ND

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#### 15. Regulatory Information:

**EEC hazard classification:** Harmful Xn  
**Risk Phases:** R11-20-21-22-36-66-67  
**Safety Phases:** S16- 23-24-33-51 S47-45°C  
**National Legislation:** ND

#### 16. Other Information:

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