



## HEALTH AND SAFETY PRODUCT INFORMATION

**Product: Power weld (hardener)**

**Date: 1st May 2009**

**Product code: 472781**

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1.

### Name and Address

INDASA Abrasives (UK) Limited, Viking Works, Greenstead Road, Colchester Essex  
CO1 2ST Tel : 01206 870366 Fax : 01206 860525 Email : [office@indasa.co.uk](mailto:office@indasa.co.uk)

2.

### Hazards identification

Hazard Symbols: Highly flammable Irritant

R 11: Highly flammable. R 37/38: Irritating to respiratory system and skin. R 43: May cause sensitisation by skin contact.

3.

### Composition/Information on ingredients

Comment on component parts.

For the wording of the listed risk phrases refer to section 16.

4.

### First-Aid measures

**General information:** Change soaked clothing.

**Inhalation:** Ensure supply of fresh air. In the event of symptoms refer for medical treatment.

**Skin contact:** In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**Ingestion:** Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a doctor immediately.

**Advice to doctor:** Treat symptomatically.

5.

### Fire-Fighting measures

**Suitable extinguishing media:** Foam. Dry powder. Sand. Water spray jet.

**Extinguishing media that must not be used:** Full water jet.

**Special exposure hazards arising from the substance or preparation itself or combustion products:**

Carbon monoxide (CO). Sulphur oxides (SO<sub>x</sub>). Hydrogen chloride (HCl).

**Special protective equipment for Firefighters:** Use self-contained breathing apparatus.

**Additional information:** Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6.

### Accident release measures

**Personal precautions:** Ensure adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/aerosol.

**Environmental precautions:** Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).

**Methods for cleaning up:** Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance with the regulations.

7.

### Handling and storage

**Advice on safe handling:** Use only in well-ventilated areas. Use solvent-resistant equipment.

**Advice on protection against fire and explosion:** Keep away from sources of ignition - refrain from smoking. Vapours can form an explosive mixture with air. Take precautionary measures against static discharges.

**Requirements for storage rooms and vessels:** Provide solvent-resistant and impermeable floor. Keep only in original container. Provide acid-resistant floor.

**Advice on storage compatibility:** Do not store together with oxidizing agents. Do not store with alkalies. Do not store together with acids.

**Further information on storage conditions:** Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating. Keep in a cool place, heat causes increase in pressure and risk of bursting.

8.

### Exposure controls/personal protection

**Additional advice on system design:**

Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored:**  
(not applicable)

**Respiratory protection:** Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.

**Hand protection:** Butyl rubber, >60 min (EN 374).

**Eye protection:** Safety glasses.

**Skin protection:** Light protective clothing.

**General protective measures:** Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.

**Hygiene measures:** Do not eat, drink, smoke or take drugs at work. Keep away from food and drink. Wash hands before breaks and after work. Use barrier skin cream.

**Delimitation and monitoring of the environmental exposition:** not determined

9.

### Physical and chemical properties

**Form:** Viscous

**Colour:** whitish

**Odour:** characteristic

**pH-value:** not determined

**pH-value (1 %):** not determined

**Boiling point [°C]:** 101

**Flash point [°C]:** 10

**Flammability [°C]:** not determined

**Lower explosion limit:** 2,1 Vol.-%

**Upper explosion limit:** 12,5 Vol.-%

**Oxidising properties:** No

**Vapour pressure [kPa]:** 28 mmHg (20°C)

**Density at [°C]**

**Density [g/ml]:** 0,96

**Bulk density [kg/m<sup>3</sup>]:** not applicable

**Solubility in water:** immiscible

**Partition coefficient: n-octanol /water:** not determined

**Viscosity:** 40000 - 60000 cps

**Relative vapour densitydetermined in air:** 3,5

**Evaporation speed:** 3

**Melting point [°C]:** not determined

**Autoignition temperature [°C]:** not determined

**Decomposition temperature [°C]:** not determined

10.

### Stability and reactivity

**Hazardous reactions:** Reactions with strong alkalies and oxidising agents. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Polymerisation with evolution of heat. Reactions with strong acids.

**Hazardous decomposition products:** Flammable gases/vapours.

11.

### Toxicological information

**Acute oral toxicity** :not determinated  
**Acute dermal toxicity:** not determinated  
**Acute inhalation toxicity:** not determinated  
**Irritant effect on eye:** not determinated  
**Irritant effect on skin:** not determinated  
**Sensitisation:** not determinated  
**Subacute toxicity:** not determinated  
**Chronic toxicity:** not determinated  
**Mutagenicity:** not determinated  
**Reproduction toxicity:** not determinated  
**Carcinogenicity:** not determinated  
**Experiences made in practice:** Sensitisation through skin contact possible.  
**General remarks:** No toxicological data are available. The product was classified on the basis of the calculation procedure of the preparation directive.

12.

### Ecological information

**Fish toxicity:** not determinated  
**Daphnia toxicity:** not determinated  
**Behaviour in environment compartments:** not determinated  
**Behaviour in sewage plant:** not applicable  
**Bacteria toxicity:** not determinated  
**Biological degradability:** not applicable  
**COD:** not determinated  
**BOD 5:** not determinated  
**AOX-advice:** . not determinated  
**2006/11/EC:** not applicable  
**General information:** Ecological data are not available.

13.

### Disposal considerations

**Disposal / Product:** For recycling, consult manufacturer. Dispose of as hazardous waste.  
**Waste no. (recommended):** 080409\*  
**Disposal / Contaminated packaging:** Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

14.

### Transport information

**Classification according to ADR:** UN1133 Adhesives 3,11  
**Classification code:** F1  
**Label:** 3 Flammable liquid,  
**ADR Limited quantities:** LQ4:51  
**Classification according to IMDG:** UN1133 Adhesives 3,11  
**EMS:** F-E, S-D  
**Label:** 3 Flammable liquid,  
**IMDG Limited quantities:** LQ 51  
**Classification according to IATA:** UN 1133 Adhesives 3,11  
**Label:** Flammable liquid

15.

### Regulatory information

**Exposure scenario:** Not determinated  
**Chemical safety report:** Not determinated  
**Labelling:** The product is classified and labelled in accordance within EC-directives.

**Hazard symbols:**

Highly flammable. Irritant

**Contains:** Methyl methacrylate,

**Risk phrases:**

R 11: Highly flammable. R37/38: Irritating to respiratory system and skin. R 43: May cause sensitisation by skin contact.

**Safety phrases:**

S16: Keep away from sources of ignition – No smoking. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29: Do not empty into drains. S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

**Special labeling:** Not applicable

**Authorisation, TITEL V11:** Not applicable

**Restrictions, TITEL V111:** Not applicable

**EEC-REGULATIONS:** 1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42;648/2004; 1907/2006.

**Transport information:** ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008)

**National regulations:** EH40/2005 Workplace Exposure Limits with amendments October 2007

**16.****Other information****R phrases (Chapter 03):**

R 11: Highly flammable.

R 21/22: Harmful in contact with skin and if swallowed.

R 23: Toxic by inhalation.

R 34: Causes burns.

R 35: Causes severe burns.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 37/38: Irritating to respiratory system and skin.

R 43: May cause sensitisation by skin contact.

R 48/20/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 7: May cause fire.

**Observe employment restrictions for people:** Yes

**VOC (1999/13/CE):** Not determined

**Customs Tariff:** Not determined

Creation date	<b>01.05.09</b>	Production Management
Replace sheet of	<b>05.01.09</b>	Phill Blowers

**Text of R-Statements listed in ingredients**

**This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.**



INDASA

## HEALTH AND SAFETY PRODUCT INFORMATION

**Product:** Power weld (resin)

**Date:** 1st May 2009

**Product code:** 472781

**Page 1 of 4**

### 1. Name and Address

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CO1 2ST Tel : 01206 870366 Fax : 01206 860525 Email : [office@indasa.co.uk](mailto:office@indasa.co.uk)

### 2.

#### Hazards identification

Hazard Symbols: Highly flammable Corrosive

R 11: Highly flammable. R 43: May cause sensitisation by skin contact. R 34: Causes burns.

### 3.

#### Composition/Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
Cumene hydroperoxide	201-254-7	80-15-9	1 - < 2.5	O-T-N R7-21/22-23-48/20/22-34-51/53 51/53-7
Methacrylic acid	201-204-4	79-41-4	5 - < 10	C-R21/22-35
Methyl methacrylate	201-297-1	80-62-6	60 - < 100	F-Xi-11-37/38-43
Tosyl chloride	202-684-8	98-59-9	1 - < 20	Xi-36/37/38

### 4.

#### First-Aid measures

**General information:** Change soaked clothing.

**Inhalation:** Ensure supply of fresh air. In the event of symptoms refer for medical treatment.

**Skin contact:** In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**Ingestion:** Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a doctor immediately.

**Advice to doctor:** Treat symptomatically.

### 5.

#### Fire-Fighting measures

**Suitable extinguishing media:** Foam. Dry powder. Sand. Water spray jet.

**Extinguishing media that must not be used:** Full water jet.

**Special exposure hazards arising from the substance or preparation itself or combustion products:**

Carbon monoxide (CO). Sulphur oxides (SO<sub>x</sub>). Hydrogen chloride (HCl).

**Special protective equipment for Firefighters:** Use self-contained breathing apparatus.

**Additional information:** Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### 6.

#### Accident release measures

**Personal precautions:** Ensure adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/aerosol.

**Environmental precautions:** Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).

**Methods for cleaning up:** Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance with the regulations.

7.

### Handling and storage

**Advice on safe handling:** Use only in well-ventilated areas. Use solvent-resistant equipment.  
**Advice on protection against fire and explosion:** Keep away from sources of ignition - refrain from smoking. Vapours can form an explosive mixture with air. Take precautionary measures against static discharges.  
**Requirements for storage rooms and vessels:** Provide solvent-resistant and impermeable floor. Keep only in original container. Provide acid-resistant floor.  
**Advice on storage compatibility:** Do not store together with oxidizing agents. Do not store with alkalis. Do not store together with acids.  
**Further information on storage conditions:** Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating. Keep in a cool place, heat causes increase in pressure and risk of bursting.

8.

### Exposure controls/personal protection

**Additional advice on system design:**  
Ensure adequate ventilation on workstation.  
**Ingredients with occupational exposure limits to be monitored: (GB)**  
(not applicable)  
**Respiratory protection:** Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.  
**Hand protection:** Butyl rubber, >60 min (EN 374).  
**Eye protection:** Safety glasses.  
**Skin protection:** Light protective clothing.  
**General protective measures:** Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.  
**Hygiene measures:** Do not eat, drink, smoke or take drugs at work. Keep away from food and drink. Wash hands before breaks and after work. Use barrier skin cream.  
**Delimitation and monitoring of the environmental exposition:** not determined.

9.

### Physical and chemical properties

**Form:** Viscous  
**Colour:** whitish  
**Odour:** characteristic  
**pH-value:** not determined  
**pH-value (1 %):** not determined  
**Boiling point [°C]:** 101  
**Flash point [°C]:** 10  
**Flammability [°C]:** not determined  
**Lower explosion limit:** 2,1 Vol.-%  
**Upper explosion limit:** 12,5 Vol.-%  
**Oxidising properties:** No  
**Vapour pressure [kPa]:** 28 mmHg (20°C)  
**Density [g/ml]:** 0,96  
**Bulk density [kg/m<sup>3</sup>]:** not applicable  
**Solubility in water:** immiscible  
**Partition coefficient: n-octanol /water:** not determined  
**Viscosity:** 40000 - 60000 cps  
**Relative vapour densitydetermined in air:** 3,5  
**Evaporation speed:** not determined  
**Melting point [°C]:** -48  
**Autoignition temperature [°C]:** 421  
**Decomposition temperature [°C]:** not determined

10.

### Stability and reactivity

**Hazardous reactions:** Reactions with strong alkalis and oxidising agents. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Polymerisation with evolution of heat. Reactions with strong acids.

**Hazardous decomposition products:** Flammable gases/vapours.

## 11.

### Toxicological information

**Acute oral toxicity** :not determined

Acute dermal toxicity: not determined

Acute inhalation toxicity: not determined

Irritant effect on eye: not determined

Irritant effect on skin: not determined

Sensitisation: not determined

Subacute toxicity: not determined

Chronic toxicity: not determined

Mutagenicity: not determined

Reproduction toxicity: not determined

Carcinogenicity: not determined

Experiences made in practice: Sensitisation through skin contact possible.

General remarks: No toxicological data are available. The product was classified on the basis of the calculation procedure of the preparation directive.

## 12.

### Ecological information

**Fish toxicity:** not determined

**Daphnia toxicity:** not determined

**Behaviour in environment compartments:** not determined

**Behaviour in sewage plant:** not applicable

**Bacteria toxicity:** not determined

**Biological degradability:** not applicable

**COD:** not determined

**BOD 5:** not determined

**AOX-advice:** . not determined

**2006/11/EC:** not applicable

**General information:** Ecological data are not available.

## 13.

### Disposal considerations

**Disposal / Product:** For recycling, consult manufacturer. Dispose of as hazardous waste.

**Waste no. (recommended):** 080409\*

**Disposal / Contaminated packaging:** Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

## 14.

### Transport information

**Classification according to ADR:** UN2924 Flammable liquid, corrosive, n.o.s. (Methyl-methacrylate, Methacrylic acid), 3 (8), 11

**Classification code:** FC

**Label:** 3 & 8 Flammable liquid, corrosive,

**ADR Limited quantities:** LQ4:31

**Classification according to IMDG:** UN2924, flammable liquid, corrosive, n.o.s. (Methyl methacrylate, Methacrylic acid) 3 (8), 11

**EMS:** F-E, S-C

**Label:** : 3 (8) Flammable liquid, corrosive,

**IMDG Limited quantities:** LQ 11

**Classification according to IATA:** UN 2924 Flammable liquid, corrosive, n.o.s. (Methyl-methacrylate, Methacrylic acid mixture ) Class: 3 11

**Label:** Flammable liquid & corrosive,

## 15.

### Regulatory information

**Exposure scenario:** Not determined

**Chemical safety report:** Not determinated

**Labelling:** The product is classified and labelled in accordance within EC-directives.

**Hazard symbols:**

Highly flammable. Corrosive.

Contains: Methacrylic acid, Methyl methacrylate, Cumene Hydroperoxide.

Risk phrases:

R 11: Highly flammable. R 43: May cause sensitisation by skin contact. R 34: Causes burns.

Safety phrases:

S16: Keep away from sources of ignition – No smoking. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29: Do not empty into drains. S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Special labeling:** Not applicable

**Authorisation, TITEL V11:** Not applicable

**Restrictions, TITEL V111:** Not applicable

**EEC-REGULATIONS:** 1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42;648/2004; 1907/2006.

**Transport information:** ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008)

**National regulations:** EH40/2005 Workplace Exposure Limits with amendments October 2007

**16.**

**Other information**

**R phrases (Chapter 03):**

R 11: Highly flammable.

R 21/22: Harmful in contact with skin and if swallowed.

R 23: Toxic by inhalation.

R 34: Causes burns.

R 35: Causes severe burns.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 37/38: Irritating to respiratory system and skin.

R 43: May cause sensitisation by skin contact.

R 48/20/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 7: May cause fire.

**Observe employment restrictions for people:** Yes

**VOC (1999/13/CE):** Not determinated

**Customs Tariff:** Not determinated

Creation date	<b>01.05.09</b>	Production Management
Replace sheet of	<b>05.01.09</b>	Phil Blowers

**Text of R-Statements listed in ingredients**

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