



## SAFETY DATA SHEET

### Cold Joint Sealer

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** Cold Joint Sealer

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** PC14 Metal surface treatment products

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** Instarmac  
 Danny Morson Way  
 Birch Coppice Business Park  
 Dordon  
 Tamworth  
 Staffs  
 B78 1SE  
 (T) +44 (0) 1827 254 400  
 www.instarmac.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 254 400

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** STOT RE 2 - H373

**Environmental hazards** Aquatic Chronic 3 - H412

**Human health** Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal. Vapours and spray/mists in high concentrations are narcotic.

**Environmental** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Physicochemical** Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. The product is extremely flammable.

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger

## Cold Joint Sealer

<b>Hazard statements</b>	<p>EUH208 Contains Fatty acids, reaction products with N-(2-aminoethyl) piperazine. May produce an allergic reaction.</p> <p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P102 Keep out of reach of children.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
<b>Supplemental label information</b>	<p>EUH066 Repeated exposure may cause skin dryness or cracking.</p> <p>RCH002a Restricted to professional users.</p>
<b>Contains</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Paving grade bitumen</b>	<b>10-30%</b>
CAS number: 8052-42-4	EC number: 232-490-9
	REACH registration number: 01-2119480172-44
<b>Classification</b>	
Not Classified	
<b>DIMETHYL ETHER</b>	<b>10-30%</b>
CAS number: 115-10-6	EC number: 204-065-8
	REACH registration number: 01-2119472128-37-XXXX
<b>Classification</b>	
Flam. Gas 1 - H220	
<b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b>	<b>10-30%</b>
CAS number: 68476-85-7	EC number: 270-704-2
<b>Classification</b>	
Flam. Gas 1 - H220	
Press. Gas (Liq.) - H280	

## Cold Joint Sealer

<b>Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics</b> <span style="float: right;"><b>5-10%</b></span>		
CAS number: 64742-88-7	EC number: 919-446-0	REACH registration number: 01-2119458049-33
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
<b>ALIPHATIC HYDROCARBON (D40)</b> <span style="float: right;"><b>5-10%</b></span>		
CAS number: —	EC number: 919-857-5	REACH registration number: 01-2119463258-33-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304		
<b>XYLENE</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		
<b>1,2,4-TRIMETHYLBENZENE</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 95-63-6	EC number: 202-436-9	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411		

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<b>SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA</b>			<b>1-5%</b>
CAS number: 64742-95-6	EC number: 265-199-0	REACH registration number: 01-2119455851-35	
<b>Classification</b>			
Flam. Liq. 3 - H226			
STOT SE 3 - H335, H336			
Asp. Tox. 1 - H304			
Aquatic Chronic 2 - H411			
<b>ETHANOL</b>			<b>&lt;1%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43	
<b>Classification</b>			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
<b>ETHYLBENZENE</b>			<b>&lt;1%</b>
CAS number: 100-41-4	EC number: 202-849-4	REACH registration number: 01-2119489370-35	
<b>Classification</b>			
Flam. Liq. 2 - H225			
Acute Tox. 4 - H332			
STOT RE 2 - H373			
Asp. Tox. 1 - H304			
Aquatic Chronic 3 - H412			
<b>Fatty acids, reaction products with N-(2-aminoethyl) piperazine</b>			<b>&lt;1%</b>
CAS number: 92062-17-4	EC number: 295-532-5	REACH registration number: 01-2119491298-25	
M factor (Acute) = 1	M factor (Chronic) = 1		
<b>Classification</b>			
Acute Tox. 4 - H302			
Skin Corr. 1A - H314			
Eye Dam. 1 - H318			
Skin Sens. 1 - H317			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

## Cold Joint Sealer

<b>METHANOL</b>			<b>&lt;1%</b>
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44	

<b>Classification</b>			
Flam. Liq. 2 - H225			
Acute Tox. 3 - H301			
Acute Tox. 3 - H311			
Acute Tox. 3 - H331			
STOT SE 1 - H370			

<b>TOLUENE</b>			<b>&lt;1%</b>
CAS number: 108-88-3	EC number: 203-625-9	REACH registration number: 01-2119471310-51	

<b>Classification</b>			
Flam. Liq. 2 - H225			
Skin Irrit. 2 - H315			
Repr. 2 - H361d			
STOT SE 3 - H336			
STOT RE 2 - H373			
Asp. Tox. 1 - H304			

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air at once.
<b>Inhalation</b>	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

#### 5.2. Special hazards arising from the substance or mixture

## Cold Joint Sealer

**Specific hazards** Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from heat, sparks and open flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Paving grade bitumen**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

##### **DIMETHYL ETHER**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

##### **PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS**

## Cold Joint Sealer

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics

Long-term exposure limit (8-hour TWA): WEL 350 mg/m<sup>3</sup>

#### ALIPHATIC HYDROCARBON (D40)

Long-term exposure limit (8-hour TWA): SUP 1040 mg/m<sup>3</sup>

#### XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

#### 1,2,4-TRIMETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm

#### SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA

Long-term exposure limit (8-hour TWA): SUP 600 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): WEL 50 ppm

#### ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

#### ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 441 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 125 ppm(Sk) 552 mg/m<sup>3</sup>(Sk)

#### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

#### TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

#### Ingredient comments

WEL = Workplace Exposure Limits

#### DIMETHYL ETHER (CAS: 115-10-6)

#### DNEL

Workers - Inhalation; Long term systemic effects: 1894 mg/m<sup>3</sup>

Consumer - Inhalation; Long term systemic effects: 471 mg/m<sup>3</sup>

#### PNEC

- Fresh water; 0.155 mg/l

- marine water; 0.016 mg/l

- Water, Intermittent release; 1.549 mg/l

- Water, STP; 160 mg/l

- Sediment (Freshwater); 0.681 mg/l

- Sediment (Marinewater); 0.069 mg/l

- Soil; 0.045 mg/l

#### Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics (CAS: 64742-88-7)

## Cold Joint Sealer

<b>DNEL</b>	Industry - Inhalation; Short term systemic effects: 570 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 1056 mg/kg/day Industry - Inhalation; Long term systemic effects: 1980 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 570 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 71 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 26 mg/kg/day Workers - Inhalation; Long term systemic effects: 330 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 44 mg/kg/day
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### ALIPHATIC HYDROCARBON (D40)

<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 300 mg/kg/day Workers - Inhalation; Long term systemic effects: 1500 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 300 mg/kg Consumer - Inhalation; Long term systemic effects: 900 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 300 mg/kg/day
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### XYLENE (CAS: 1330-20-7)

<b>Biological limit values</b>	650 mmol/mol creatinine Medium : urine. Sampling time: post-shift. Parameter: methylhippuric acid.
<b>DNEL</b>	Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day Consumer - Dermal; Long term systemic effects: 1872 mg/kg/day Consumer - Inhalation; Long term systemic effects: 65.3 mg/m <sup>3</sup> Consumer - Inhalation; Short term : 260 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 3182 mg/kg/day Industry - Inhalation; Long term systemic effects: 221 mg/m <sup>3</sup> Industry - Inhalation; Short term : 442 mg/m <sup>3</sup>
<b>PNEC</b>	This product is a UVCB substance and its composition will be variable, so reported properties may vary or require a range of values to describe them. - Fresh water; 0.327 mg/l - marine water; 0.327 mg/l - Intermittent release; 0.327 mg/l - STP; 6.58 mg/l - Sediment (Freshwater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Soil; 2.31 mg/kg

### SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA (CAS: 64742-95-6)

<b>DNEL</b>	Industry, Workers - Inhalation; Long term systemic effects: 150 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 32 mg/m <sup>3</sup>
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### ETHANOL (CAS: 64-17-5)

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
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## Cold Joint Sealer

**DNEL**

Industry - Inhalation; Short term : 1900 mg/m<sup>3</sup>  
 Industry - Dermal; Long term : 343 mg/kg/day  
 Industry - Inhalation; Long term : 950 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term : 950 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term : 206 mg/kg/day  
 Consumer - Inhalation; Long term : 114 mg/m<sup>3</sup>  
 Consumer - Oral; Long term : 87 mg/kg/day

**PNEC**

- Fresh water; 0.96 mg/l
- marine water; 0.79 mg/l
- Sediment; 3.6 mg/kg
- Soil; 0.62 mg/kg
- STP; 580 mg/l
- STP; 580 mg/l
- Intermittent release; 2.75 mg/l
- Sediment (Marinewater); 2.9 mg/kg
- Soil; 0.63 mg/kg
- ;

### ETHYLBENZENE (CAS: 100-41-4)

**DNEL**

Consumer - Oral; Long term systemic effects: 1.6 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 108 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 14.8 mg/m<sup>3</sup>  
 Industry - Dermal; Long term systemic effects: 180 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>  
 Industry - Inhalation; Short term : 289 mg/m<sup>3</sup>

**PNEC**

Fresh water; 0.1 mg/l  
 marine water; 0.1 mg/l  
 Intermittent release; 0.1 mg/l  
 Sediment (Freshwater); 13.7 mg/kg  
 Sediment (Marinewater); 13.7 mg/kg  
 Soil; 2.68 mg/kg  
 STP; 9.6 mg/kg

### METHANOL (CAS: 67-56-1)

**DNEL**

Industry - Dermal; Short term systemic effects: 40 mg/kg/day  
 Industry - Inhalation; Short term systemic effects: 260 mg/m<sup>3</sup>  
 Industry - Inhalation; Short term local effects: 260 mg/m<sup>3</sup>  
 Industry - Dermal; Long term systemic effects: 40 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 260 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 50 mg/m<sup>3</sup>  
 Consumer - Dermal; Short term systemic effects: 8 mg/kg/day  
 Consumer - Inhalation; Short term systemic effects: 50 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 8 mg/kg/day

**PNEC**

- Fresh water; 154 mg/l
- marine water; 15.4
- Sediment; 570.4 mg/kg
- Soil; 23.5 mg/kg
- STP; 100 mg/l
- Intermittent release; 1540 mg/kg

### TOLUENE (CAS: 108-88-3)

## Cold Joint Sealer

<b>DNEL</b>	General population - Inhalation; : 226 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.68 mg/l - marine water; 0.68 mg/l - Soil; 2.89 mg/kg

### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
<b>Personal protection</b>	Do not eat, drink or smoke when using this product.
<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
<b>Hygiene measures</b>	Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. Wash hands thoroughly after handling.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Black.
<b>Odour</b>	Organic solvents.
<b>Initial boiling point and range</b>	-40 to -2°C @ 1013 hPa
<b>Flash point</b>	<-40°C
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.8% Upper flammable/explosive limit: 9.5%
<b>Vapour pressure</b>	ca. 590 to 1760 kPa @ 45°C
<b>Vapour density</b>	ca. 1.5 at 15°C
<b>Auto-ignition temperature</b>	410-580°C
<b>Comments</b>	Information given is applicable to the major ingredient.

### 9.2. Other information

<b>Other information</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 525 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.2. Chemical stability

## Cold Joint Sealer

**Stability** Avoid the following conditions: Heat, sparks, flames.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Does not decompose when used and stored as recommended.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Keep away from oxidising materials, heat and flames.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 50,000.0

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 36,666.67

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 366.67

**General information** Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Inhalation** Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

**Skin contact** Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

**Eye contact** Vapour or spray in the eyes may cause irritation and smarting.

**Acute and chronic health hazards** Gas or vapour in high concentrations may irritate the respiratory system.

**Route of exposure** Inhalation

**Target organs** Central nervous system Respiratory system, lungs

**Medical symptoms** Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

## SECTION 12: Ecological information

## Cold Joint Sealer

**Ecotoxicity** ENVIRONMENTAL HAZARDS: This product has not been tested but contains ingredients which are harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.

### 12.1. Toxicity

**Toxicity** Not available.

### 12.2. Persistence and degradability

**Persistence and degradability** Not available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not available.

### 12.4. Mobility in soil

**Mobility** Not known.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** Not available.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

## SECTION 14: Transport information

**General** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (ADN)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

## Cold Joint Sealer

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ICAO packing group	None
ADN packing group	None

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits. The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010.

## Cold Joint Sealer

**Guidance** Workplace Exposure Limits EH40.  
 Safety Data Sheets for Substances and Preparations.  
 Approved Classification and Labelling Guide (Sixth edition) L131.  
 British Aerosol Manufacturers Code of Practice 7th. Edition 1999

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

<b>Revision comments</b>	Supplemental information added.
<b>Revision date</b>	11/04/2019
<b>Revision</b>	5
<b>SDS number</b>	11056
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.          H222 Extremely flammable aerosol.          H225 Highly flammable liquid and vapour.          H226 Flammable liquid and vapour.          H229 Pressurised container: may burst if heated.          H280 Contains gas under pressure; may explode if heated.          H301 Toxic if swallowed.          H302 Harmful if swallowed.          H304 May be fatal if swallowed and enters airways.          H311 Toxic in contact with skin.          H312 Harmful in contact with skin.          H314 Causes severe skin burns and eye damage.          H315 Causes skin irritation.          H317 May cause an allergic skin reaction.          H318 Causes serious eye damage.          H319 Causes serious eye irritation.          H331 Toxic if inhaled.          H332 Harmful if inhaled.          H335 May cause respiratory irritation.          H336 May cause drowsiness or dizziness.          H361d Suspected of damaging the unborn child.          H370 Causes damage to organs .          H372 Causes damage to organs through prolonged or repeated exposure.          H373 May cause damage to organs through prolonged or repeated exposure.          H400 Very toxic to aquatic life.          H410 Very toxic to aquatic life with long lasting effects.          H411 Toxic to aquatic life with long lasting effects.          H412 Harmful to aquatic life with long lasting effects.          EUH208 Contains Fatty acids, reaction products with N-(2-aminoethyl) piperazine. May produce an allergic reaction.</p>

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