

# morleys

A D H E S I V E S

## SAFETY DATA SHEET JM006

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

#### 1.1. Product identifier

Product name	JM006 Contact Adhesive
Product number	JM006
UFI	UFI: CH00-W0SK-600R-CS51
REACH registration notes	All chemicals used in this product have been registered under REACH where required.

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

Identified uses	Contact Adhesive.
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Morleys Adhesives (2013) Ltd Unit 20 Higher Walton Mill Higher Walton Preston, Lancashire PR5 4DJ Tel: 0044(0)1772 626700 Fax: 0044(0)1772 627372 Email: adhesives@morleys2013.co.uk
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#### 1.4. Emergency telephone number

Emergency telephone	44 (0)1772 626700 (Available 08.30 to 17.00)
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### SECTION 2: Hazards identification

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

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

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373
Environmental hazards	Aquatic Chronic 3 - H412

**Human health** The liquid is irritating to eyes and skin. Contains a substance/a group of substances which may damage the unborn child.

**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** The product is highly flammable. Vapours may form explosive mixtures with air.

#### 2.2. Label elements

**JM006****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH208 Contains ROSIN. May produce an allergic reaction.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing gas, fume, vapours or spray.  
 P273 Avoid release to the environment.  
 P314 Get medical advice/ attention if you feel unwell.

**Contains**

TOLUENE, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, ETHYL ACETATE

**Supplementary precautionary statements**

P201 Obtain special instructions before use.  
 P241 Use explosion-proof electrical/ ventilating /lighting/.../ equipment.  
 P242 Use non-sparking tools.  
 P260 Do not breathe vapour/ spray.  
 P264 Wash ... thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.  
 P312 Call a POISON CENTRE/doctor if you feel unwell.  
 P321 Specific treatment (see medical advice on this label).  
 P330 Rinse mouth.  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P370+P378 In case of fire: Use dry powder, dry sand or dry earth to extinguish.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/ container in accordance with national regulations.

**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**

**JM006**

<b>TOLUENE</b> <span style="float: right;"><b>35-50%</b></span>		
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		
<b>Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,&lt;5%n-hexane</b> <span style="float: right;"><b>20-35%</b></span>		
CAS number: —	EC number: 921-024-6	REACH registration number: 01-2119475514-35
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
<b>ETHYL ACETATE</b> <span style="float: right;"><b>5-10%</b></span>		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>ROSIN</b> <span style="float: right;"><b>&lt;0.4%</b></span>		
CAS number: 8050-09-7	EC number: 232-475-7	
<b>Classification</b> Skin Sens. 1 - H317		

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<b>XYLENE</b>	<b>&lt;1%</b>
CAS number: 1330-20-7	EC number: 215-535-7
	REACH registration number: 01-2119488216-32

**Classification**

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>HEXANE-norm</b>	<b>&lt;1%</b>
CAS number: 110-54-3	EC number: 203-777-6

**Classification**

Flam. Liq. 2 - H225  
 Skin Irrit. 2 - H315  
 Repr. 2 - H361f  
 STOT SE 3 - H336  
 STOT RE 2 - H373  
 Asp. Tox. 1 - H304  
 Aquatic Chronic 2 - H411

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

**Composition comments** Polychloroprene based adhesive in petroleum solvent

**Chemical Nature**

chemical nature

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General information</b>	Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air at once. 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. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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### 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.
<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
<b>Specific treatments</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Heating may generate flammable vapours. The product is highly flammable. Vapours may form explosive mixtures with air. Vapours may accumulate on the floor and in low-lying areas.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.
<b>Special protective equipment for firefighters</b>	Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.
<b>For non-emergency personnel</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
<b>For emergency responders</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

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**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 sand or other inert absorbent.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid inhalation of vapours/spray and contact with skin and eyes.

**Advice on general occupational hygiene** Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin.

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

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 5°C and 25°C.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

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

**Usage description** Adhesive.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### TOLUENE

Long-term exposure limit (8-hour TWA): 50 191

Short-term exposure limit (15-minute): 100 384

##### ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

##### ROSIN

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0.15 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

##### HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

##### ETHYLBENZENE

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

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

Sk

**JM006****FORMALDEHYDE ...%**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

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

<b>DNEL</b>	<p>Consumer - Oral; Long term systemic effects: 8.13 mg/m<sup>3</sup></p> <p>Industry - Dermal; Long term systemic effects: 384 mg/kg/day</p> <p>Consumer - Inhalation; Short term local effects: 226 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term systemic effects: 226 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term systemic effects: 384 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term local effects: 384 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term local effects: 192 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 56.5 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term systemic effects: 192 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 0.68 mg/l</p> <p>- Sediment (Freshwater); 16.39 mg/kg</p> <p>- STP; 13.61 mg/l</p> <p>- Soil; 2.89 mg/kg</p>

**Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane**

<b>DNEL</b>	<p>Consumer - Oral; Long term systemic effects: 699 mg/kg/day</p> <p>Industry - Oral; Long term systemic effects: 2035 mg/kg/day</p> <p>Consumer - Dermal; Long term systemic effects: 699 mg/kg/day</p> <p>- Dermal; Long term systemic effects: 773 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 608 mg/m<sup>3</sup></p>
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**ETHYL ACETATE (CAS: 141-78-6)**

<b>DNEL</b>	<p>Industry - Inhalation; Short term systemic effects: 1468 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term local effects: 1468 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term systemic effects: 734 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term local effects: 734 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term local effects: 734 mg/m<sup>3</sup></p> <p>Industry - Dermal; Long term systemic effects: 63 mg/kg/day</p> <p>Industry - Inhalation; Long term systemic effects: 734 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 37 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 367 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 0.26 mg/l</p> <p>- Intermittent release; 1.65 mg/l</p> <p>- Sediment (Freshwater); 1.25 mg/kg</p> <p>- Sediment (Marinewater); 0.125 mg/kg</p> <p>- Soil; 0.24 mg/kg</p> <p>- STP; 650 mg/l</p>

**XYLENE (CAS: 1330-20-7)**

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
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<b>DNEL</b>	<p>Consumer - Dermal; Long term systemic effects: 108 mg/kg/day</p> <p>Industry - Dermal; Long term systemic effects: 180 mg/kg/day</p> <p>Consumer - Inhalation; Short term local effects: 174 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term systemic effects: 174 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term systemic effects: 289 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term local effects: 289 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 14.8 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 0.327 mg/l</p> <p>- Soil; 2.31 mg/kg</p>

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

<b>DNEL</b>	Workers - Inhalation; Short term local effects: 293 mg/m <sup>3</sup>
<b>PNEC</b>	<p>- marine water; 0.01 mg/l</p> <p>- Intermittent release; 0.1 mg/l</p> <p>- Sediment (Marinewater); 1.37 mg/l</p>

**PARATERTIARYBUTYLPHENOL (CAS: 98-54-4)**

<b>PNEC</b>	<p>- Soil; 0.324 mg/kg</p> <p>- Fresh water; 0.01 mg/l</p> <p>- Sediment (Freshwater); 0.975 mg/l</p> <p>- Sediment (Marinewater); 0.0975 mg/l</p>
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**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Maintain efficient ventilation/extraction using flameproof equipment where necessary.

**Eye/face protection**

Wear chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

**Hand protection**

Wear protective gloves made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 6 hours. 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. When used with mixtures, the protection time of gloves cannot be accurately estimated.

**Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination.

**Hygiene measures**

Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

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<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
<b>Thermal hazards</b>	Contact with hot product can cause serious thermal burns.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Organic solvents.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not available.
<b>Melting point</b>	Not applicable.
<b>Flash point</b>	-8°C Closed cup.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.9 Upper flammable/explosive limit: 11.5
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.880 @ @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Not determined. Insoluble in water. Soluble in the following materials: Organic solvents.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	5,500- - 6,500 cP @ 20°C
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Not determined.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

**9.2. Other information**

<b>Refractive index</b>	Not applicable.
<b>Particle size</b>	Not available.
<b>Molecular weight</b>	Not applicable.

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<b>Saturation concentration</b>	Not available.
<b>Critical temperature</b>	Not determined.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 632 g/l.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

**Stability** Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** Not applicable.

**10.4. Conditions to avoid**

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials**

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl).

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** Not determined.

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** Not determined.

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** Not determined.

**Skin corrosion/irritation**

**Human skin model test** Not determined.

**Extreme pH** Not determined.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Not determined.

**General information** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Inhalation** Vapours may cause drowsiness and dizziness.

**Ingestion** May cause stomach pain or vomiting.

**Skin contact** Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin.

**Eye contact** May cause temporary eye irritation.

**JM006****Acute and chronic health hazards**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Contains a substance/a group of substances which may damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Route of exposure** Inhalation Skin absorption

**Toxicological information on ingredients.****TOLUENE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,328.0

**Species** Rat

**ATE oral (mg/kg)** 4,328.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 6,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 6,000.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 21.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 21.0

**Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**ETHYL ACETATE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,100.0

**Species** Mouse

**ATE oral (mg/kg)** 4,100.0

**JM006****Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,005.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,005.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 30.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 30.0

**Skin sensitisation**

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Negative

**Reproductive toxicity**

**Reproductive toxicity - fertility** - NOAEL 16000 ppm, Inhalation, Rat P

**Reproductive toxicity - development** - NOAEL: 20000 ppm, Inhalation, Rat

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** Conclusive data but not sufficient for classification.

**XYLENE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,300.0

**Species** Rat

**ATE oral (mg/kg)** 4,300.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 1,100.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 10.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 10.0

**Carcinogenicity**

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

**JM006****PARATERTIARYBUTYLPHENOL****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,660.0

**Species** Rat

**ATE oral (mg/kg)** 5,660.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 4,100.0

**Species** Rabbit

**ATE dermal (mg/kg)** 4,100.0

**SECTION 12: Ecological information**

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

**12.1. Toxicity****Acute aquatic toxicity**

**Acute toxicity - fish** Not determined.

**Acute toxicity - aquatic invertebrates** Not determined.

**Acute toxicity - aquatic plants** Not determined.

**Acute toxicity - microorganisms** Not determined.

**Acute toxicity - terrestrial** Not determined.

**Chronic aquatic toxicity**

**Chronic toxicity - fish early life stage** Not determined.

**Short term toxicity - embryo and sac fry stages** Not determined.

**Chronic toxicity - aquatic invertebrates** Not determined.

**Ecological information on ingredients.****TOLUENE****Acute aquatic toxicity**

**Acute toxicity - fish** LC50, 96 hours: 13 mg/l, Carassius auratus (Goldfish)  
LC50, 96 hours: 24 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 11.5 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 12 mg/l, Selenastrum capricornutum

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**Acute toxicity - microorganisms** NOEC, : 29 mg/l, Activated sludge

**Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane****Acute aquatic toxicity**

**Acute toxicity - fish** NOEC, : 1 - 10 mg/l,  
LC<sub>50</sub>, 96 hours: 1 - 10 mg/l, Fish

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 10 - 100 mg/l, Algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, : 1 - 10 mg/l, Activated sludge

**ETHYL ACETATE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)  
NOEC, 192 hours: >9.65 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 610 mg/l, Daphnia magna  
NOEC, 192 hours: 2.4 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: 5,600 mg/l, Freshwater algae

**XYLENE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 8.9 - 16.4 mg/l, Pimephales promelas (Fat-head Minnow)  
EC<sub>50</sub>, 96 hours: 86 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3.2- 9.5 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: 1 - 10 mg/l, Scenedesmus subspicatus

**Acute toxicity - microorganisms** , : ,

**PARATERTIARYBUTYLPHENOL****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 4.71 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 3.5 mg/l, Daphnia magna

**12.2. Persistence and degradability**

**Persistence and degradability** The product is expected to be slowly biodegradable.

**Phototransformation** Not relevant.

**Stability (hydrolysis)** Not determined.

**Biodegradation** Not determined.

**Biological oxygen demand** Not determined.

**JM006**

**Chemical oxygen demand** Not determined.

Ecological information on ingredients.**TOLUENE**

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** - Degradation (%) 86: 20 days  
readily biodegradable

**Biological oxygen demand** 1.23 g O<sub>2</sub>/g substance

**ETHYL ACETATE**

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** - Degradation (%) 79: 20 days  
readily biodegradable

**XYLENE**

**Biodegradation** Water - Degradation (%) 60: > 28 days  
readily biodegradable

12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

Ecological information on ingredients.**TOLUENE**

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ,

**ETHYL ACETATE**

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.  
BCF: 30, Leuciscus idus (Golden orfe) readily biodegradable

**Partition coefficient** log Pow: 0.73

12.4. Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**Adsorption/desorption coefficient** Not determined.

**Henry's law constant** Not determined.

**Surface tension** Not determined.

Ecological information on ingredients.**TOLUENE**

**JM006**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**ETHYL ACETATE**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**Adsorption/desorption coefficient** Water - Koc: 1.43 @ 25°C

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Ecological information on ingredients.****TOLUENE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**ETHYL ACETATE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**XYLENE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects** Not known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**General information** Waste liquid components should be suitable for incineration at an approved facility.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information****14.1. UN number**

**UN No. (ADR/RID)** 1133

**UN No. (IMDG)** 1133

**UN No. (ICAO)** 1133

**14.2. UN proper shipping name**

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

**Proper shipping name (IMDG)** ADHESIVES

**Proper shipping name (ICAO)** ADHESIVES

**JM006**

Proper shipping name (ADN) ADHESIVES

**14.3. Transport hazard class(es)**

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3

**Transport labels****14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

EmS	F-E, S-D
Emergency Action Code	3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

**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 Pollution Act 1974. Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Safety Data Sheets for Substances and Preparations.

**JM006**

**Authorisations (Annex XIV Regulation 1907/2006)** No specific authorisations are known for this product.

**Restrictions (Annex XVII Regulation 1907/2006)** No specific restrictions on use are known for this product.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms used in the safety data sheet**

ADR : European Agreement concerning the International Transport of Dangerous Goods by Road  
 RID : Regulations Concerning the International Transport of Dangerous Goods by Rail  
 IMDG : International Maritime Code for Dangerous Goods  
 IATA : International Air Transport Association  
 ICAO : International Civil Aviation Organization  
 GHS : Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS : European Inventory of Existing Commercial Chemical Substances  
 CAS : Chemical Abstracts Service  
 DNEL ; Derived No Effect Level (REACH)  
 PNEC : Predicted No Effect Concentration (REACH)  
 LC50 : Lethal Concentration 50 percent  
 LD50 : Lethal Dose 50 percent

**Key literature references and sources for data** Dangerous Properties of Industrial Materials Report, N.Sax et.al.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 03/12/20

**Revision** 3

**Supersedes date** 01/11/2017

**Hazard statements in full**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.  
 H361f Suspected of damaging fertility.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH208 Contains ROSIN. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.