



## SAFETY DATA SHEET C/70 ADHESIVE

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

#### 1.1. Product identifier

**Product name** C/70 ADHESIVE

**Product number** C/70

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

**Identified uses** Adhesive.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Caswell & Company Limited  
6 Princewood Road  
Earlstrees Industrial Estate  
Corby, Northants. NN17 4AP  
+44(0)1536 464800  
+44(0)1536 464801

#### 1.4. Emergency telephone number

**Emergency telephone** IN CASE OF EMERGENCY TELEPHONE 01536 464800. OFFICE HOURS MON - THURS  
9AM - 5 PM FRI 9AM - 2 PM

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn;R48/20. Repr. Cat. 3;R63. Xi;R36/38. F;R11. R67.

**Human health** Contains a substance/a group of substances which may damage the unborn child. The product is irritating to eyes and skin. May cause damage to organs through prolonged or repeated exposure.

**Environmental** The product is not expected to be hazardous to the environment.

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

#### 2.2. Label elements

##### Pictogram



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<b>Signal word</b>	Danger
<b>Hazard statements</b>	<p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H319 Causes serious eye irritation.</p> <p>H315 Causes skin irritation.</p>
<b>Precautionary statements</b>	<p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p>
<b>Contains</b>	BUTANONE, ACETONE, TOLUENE
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P260 Do not breathe vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>

### 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

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<b>BUTANONE</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R66 R67	
<b>ACETONE</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R66 R67	
<b>TOLUENE</b> <span style="float: right;"><b>10-30%</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>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** The product contains organic solvents.

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

<b>General information</b>	Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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**Protection of first aiders** 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.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause redness and irritation.

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

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

**Specific treatments** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is flammable. Heating may generate flammable vapours. The product is highly flammable. Solvent vapours may form explosive mixtures with air.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**For non-emergency personnel** Wear protective clothing as described in Section 8 of this safety data sheet.

**For emergency responders** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 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. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers.

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### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Wear eye and face protection.

**Advice on general occupational hygiene** When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated.

#### 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. Keep only in the original container.

**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.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **BUTANONE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m<sup>3</sup>(Sk)

##### **ACETONE**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

##### **TOLUENE**

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

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

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

#### **BUTANONE (CAS: 78-93-3)**

##### **DNEL**

Consumer - Oral; Long term systemic effects: 31 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 412 mg/kg/day  
 Industry - Dermal; Long term systemic effects: 1161 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 106 mg/m<sup>3</sup>  
 Industry - Inhalation; Long term systemic effects: 600 mg/m<sup>3</sup>

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<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 55.8 mg/l</li> <li>- Marine water; 55.8 mg/l</li> <li>- Intermittent release; 55.8 mg/l</li> <li>- STP; 709 mg/l</li> <li>- Sediment (Marinewater); 284.7 mg/kg</li> <li>- Soil; 22.5 mg/kg</li> <li>- Sediment (Freshwater); 284.7 mg/kg</li> </ul>
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### ACETONE (CAS: 67-64-1)

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
<b>DNEL</b>	<ul style="list-style-type: none"> <li>Industry - Dermal; Short term systemic effects: 186 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Short term local effects: 2420 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Long term systemic effects: 1210 mg/m<sup>3</sup></li> <li>Consumer - Dermal; Long term systemic effects: 62 mg/kg/day</li> <li>Consumer - Inhalation; Long term systemic effects: 200 mg/m<sup>3</sup></li> <li>Consumer - Oral; Long term systemic effects: 62 mg/m<sup>3</sup></li> <li>- Dermal; Long term systemic effects: 186 mg/kg/day</li> </ul>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 10.6 mg/l</li> <li>- Marine water; 1.06 mg/l</li> <li>- Sediment (Freshwater); 30.4 mg/kg</li> <li>- Sediment (Marinewater); 3.04 mg/kg</li> <li>- Soil; 29.5 mg/kg</li> <li>- STP; 100 mg/l</li> </ul>

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

<b>DNEL</b>	<ul style="list-style-type: none"> <li>Consumer - Oral; Long term systemic effects: 8.13 mg/m<sup>3</sup></li> <li>Industry - Dermal; Long term systemic effects: 384 mg/kg/day</li> <li>Consumer - Inhalation; Short term local effects: 226 mg/m<sup>3</sup></li> <li>Consumer - Inhalation; Short term systemic effects: 226 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Short term systemic effects: 384 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Short term local effects: 384 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Long term local effects: 192 mg/m<sup>3</sup></li> <li>Consumer - Inhalation; Long term systemic effects: 56.5 mg/m<sup>3</sup></li> <li>Industry - Inhalation; Long term systemic effects: 192 mg/m<sup>3</sup></li> </ul>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>Industry - Fresh water; 0.68 mg/l</li> <li>Industry - Sediment (Freshwater); 16.39 mg/kg</li> <li>Industry - STP; 13.61 mg/l</li> <li>Industry - Soil; 2.89 mg/kg</li> </ul>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

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<b>Hand protection</b>	Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. 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>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
<b>Hygiene measures</b>	Use engineering controls to reduce air contamination to permissible exposure level. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.
<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. Clear liquid.
<b>Colour</b>	Light (or pale).
<b>Odour</b>	Ketonic.
<b>Odour threshold</b>	Not available. Not available.
<b>pH</b>	Not relevant. Not relevant.
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	74°C @ 760 mm Hg
<b>Flash point</b>	-10°C CC (Closed cup).
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.3 Upper flammable/explosive limit: 13.0
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.84 @ 20°C
<b>Bulk density</b>	Not relevant.
<b>Solubility(ies)</b>	
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	535°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	3,900 - 4,100 cP @ 20°C

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<b>Explosive properties</b>	Not available.
<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.
<b>9.2. Other information</b>	
<b>Refractive index</b>	Not relevant.
<b>Particle size</b>	Not relevant.
<b>Volatility</b>	Volatile.
<b>Saturation concentration</b>	Not available.
<b>Critical temperature</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 693 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.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**                      Not known. No potentially hazardous reactions known.

#### 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>).

### 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.

#### **General information**

Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations. May cause damage to organs through prolonged or repeated exposure.



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<b>Inhalation</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness.
<b>Skin contact</b>	Product has a defatting effect on skin. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes. Causes serious eye irritation.
<b>Acute and chronic health hazards</b>	Contains a substance/a group of substances which may damage the unborn child.
<b>Route of entry</b>	Inhalation Skin absorption

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

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,500.0

Species Rat

**Acute toxicity - dermal**

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,500.0

Species Rabbit

ATE dermal (mg/kg) 2,500.0

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 5,000.0

Species Rat

ATE inhalation (vapours mg/l) 5,000.0

**ACETONE****Acute toxicity - oral**

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,800.0

Species Rat

ATE oral (mg/kg) 5,800.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 7,400.0

Species Rabbit

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 76.0

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<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	76.0

**TOLUENE****Acute toxicity - oral**

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	6,000.0
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<b>Species</b>	Rat
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<b>ATE oral (mg/kg)</b>	6,000.0
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**Acute toxicity - dermal**

<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	6,000.0
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<b>Species</b>	Rabbit
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<b>ATE dermal (mg/kg)</b>	6,000.0
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**Acute toxicity - inhalation**

<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	21.0
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<b>Species</b>	Rat
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<b>ATE inhalation (vapours mg/l)</b>	21.0
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**2,5-THIOPHENEDIYLBIS(5-TERT-BUTYL-1,3-BENZOXAZOLE)****Acute toxicity - oral**

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	10,001.0
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<b>Species</b>	Rat
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<b>ATE oral (mg/kg)</b>	10,001.0
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**SECTION 12: Ecological Information**

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

**12.1. 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.

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**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.

#### BUTANONE

<b>Acute toxicity - fish</b>	LC50, 96 hours, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 48 hours, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours, 48 hours: > 100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours, 96 hours: 2029 , Freshwater algae
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 96 hours, 96 hours: > 50 mg/l, Activated sludge

#### ACETONE

<b>Acute toxicity - fish</b>	LC50, 96 hours, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout) LC50, 96 hours, 96 hours: 8,300 mg/l, Lepomis macrochirus (Bluegill) LC <sub>50</sub> , 96 hours: >100 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours, 48 hours: 8,800 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	NOEC, 96 hours, 96 hours: 430 mg/l, Freshwater algae IC <sub>50</sub> , 72 hours: >100 mg/l, Algae
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 28 days, 28 days: 10-<100 mg/l, Freshwater invertebrates

#### TOLUENE

<b>Acute toxicity - fish</b>	LC50, 96 hours, 96 hours: 13 mg/l, Carassius auratus (Goldfish) LC50, 96 hours, 96 hours: 24 mg/l, Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours, 48 hours: 11.5 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours, 72 hours: 12 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	NOEC, : 29 mg/l, Activated sludge

### 12.2. Persistence and degradability

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

**Phototransformation** Not applicable.

**Stability (hydrolysis)** Not determined.

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<b>Biodegradation</b>	Not determined.
<b>Biological oxygen demand</b>	Not determined.
<b>Chemical oxygen demand</b>	Not determined.

**Ecological information on ingredients.****BUTANONE**

<b>Persistence and degradability</b>	The product is biodegradable.
<b>Biodegradation</b>	Air. - Degradation (%) 98: 28 days readily biodegradable

**ACETONE**

<b>Persistence and degradability</b>	The product is readily biodegradable.
<b>Biodegradation</b>	- Degradation (%) : days readily biodegradable - Degradation (%) 91: 28 days readily biodegradable
<b>Biological oxygen demand</b>	1.9 g O <sub>2</sub> /g substance
<b>Chemical oxygen demand</b>	2.1 g O <sub>2</sub> /g substance

**TOLUENE**

<b>Persistence and degradability</b>	The product is readily biodegradable.
<b>Biodegradation</b>	- Degradation (%) 86: 20 days readily biodegradable
<b>Biological oxygen demand</b>	1.23 g O <sub>2</sub> /g substance

**12.3. Bioaccumulative potential**

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not available.

**Ecological information on ingredients.****BUTANONE**

<b>Bioaccumulative potential</b>	The product is not bioaccumulating.
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**ACETONE**

<b>Bioaccumulative potential</b>	The product is not bioaccumulating. BCF: < 10, Will not accumulate
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**TOLUENE**

<b>Bioaccumulative potential</b>	The product is not bioaccumulating. BCF: ,
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**12.4. Mobility in soil**

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<b>Mobility</b>	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
<b>Adsorption/desorption coefficient</b>	Not determined.
<b>Henry's law constant</b>	Not determined.
<b>Surface tension</b>	Not determined.

### Ecological information on ingredients.

#### BUTANONE

<b>Mobility</b>	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
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#### TOLUENE

<b>Mobility</b>	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
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### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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### Ecological information on ingredients.

#### BUTANONE

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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#### ACETONE

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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#### TOLUENE

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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### 12.6. Other adverse effects

<b>Other adverse effects</b>	None known.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility.
<b>Disposal methods</b>	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

**C/70 ADHESIVE**

UN No. (ADR/RID)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133
UN No. (ADN)	1133

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	ADHESIVES
Proper shipping name (IMDG)	ADHESIVES
Proper shipping name (ICAO)	ADHESIVES
Proper shipping name (ADN)	ADHESIVES

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

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

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

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

**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant****14.6. Special precautions for user**

EmS	F-E, S-D
ADR transport category	2
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 MARPOL73/78 and the IBC Code**

## C/70 ADHESIVE

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>	EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Dangerous Substances Directive 67/548/EEC.
<b>Guidance</b>	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.
<b>Authorisations (Title VII Regulation 1907/2006)</b>	No specific authorisations are known for this product.
<b>Restrictions (Title VIII Regulation 1907/2006)</b>	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

<b>Abbreviations and acronyms used in the safety data sheet</b>	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
<b>Key literature references and sources for data</b>	Dangerous Properties of Industrial Materials Report, N.Sax et.al.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	22/06/2015
<b>Revision</b>	7
<b>SDS number</b>	

## C/70 ADHESIVE

### Risk phrases in full

R11 Highly flammable.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye 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.

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.