

# ALPHA

## SAFETY DATA SHEET S 708 HIGH GREEN STRENGTH CONTACT ADHESIVE

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

#### 1.1. Product identifier

**Product name** S 708 HIGH GREEN STRENGTH CONTACT ADHESIVE

**Product number** 0708-512, 0708-513

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

**Identified uses** General purpose contact adhesive

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

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

**Supplier** Alpha Adhesives & Sealants Ltd  
Llewellyn Close, Sandy Lane Ind.Est.  
Stourport-on-Severn  
Worcestershire DY13 9RH

01299 828626

01299 828666

sales@alpha-adhesives.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** 44 (0) 1299 828626 (Available 08.30 to 17.00)

### SECTION 2: Hazards identification

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

##### Classification

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

**Health hazards** Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Elicitation - EUH208 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

**Environmental hazards** Aquatic Chronic 2 - H411

**Classification (67/548/EEC or 1999/45/EC)** Xn;R48/20. Repr. Cat. 3;R63. Xi;R36/38. F;R11. N;R51/53. R67.

**Human health** Contains a substance/a group of substances which may damage the unborn child.

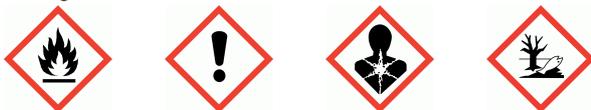
**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

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

#### 2.2. Label elements

## S 708 HIGH GREEN STRENGTH CONTACT ADHESIVE

### Pictogram



### Signal word

Danger

### Hazard statements

EUH208 Contains ROSIN. May produce an allergic reaction.  
 H411 Toxic to aquatic life with long lasting effects.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H225 Highly flammable liquid and vapour.  
 H336 May cause drowsiness or dizziness.  
 H315 Causes skin irritation.  
 H361d Suspected of damaging the unborn child.  
 H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.

### 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 precautionary measures against static discharge.  
 P261 Avoid breathing vapour/spray.  
 P273 Avoid release to the environment.  
 P314 Get medical advice/attention if you feel unwell.

### Contains

HEPTANE, TOLUENE, BUTANONE

### Supplementary precautionary statements

P201 Obtain special instructions before use.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical equipment.  
 P242 Use only non-sparking tools.  
 P260 Do not breathe vapour/spray.  
 P264 Wash contaminated skin 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/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a POISON CENTER/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.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
 P391 Collect spillage.  
 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.

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### 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>HEPTANE</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 142-82-5	EC number: 205-563-8	REACH registration number: 01-2119475515-33
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xn;R65 Xi;R38 R67 N;R50/53	
<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	
<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>ROSIN</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 8050-09-7	EC number: 232-475-7	
<b>Classification</b> Skin Sens. 1 - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> R43	

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

**Composition comments** Neoprene Contact Adhesive

### SECTION 4: First aid measures

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### 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. Keep the affected person warm and at rest. Get prompt 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>	No specific recommendations. If in doubt, get medical attention promptly.
<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.

### 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.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemicals, sand, dolomite etc.
<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>	Fire creates: 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.
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**Special protective equipment for firefighters** Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles. Use air-supplied respirator, gloves and protective goggles.

### SECTION 6: Accidental release measures

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

**Personal precautions** 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.

**For non-emergency personnel** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**For emergency responders** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

#### 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. 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.

**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

##### HEPTANE

Long-term exposure limit (8-hour TWA): WEL 500

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

##### TOLUENE

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

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

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### 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)

### 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>

WEL = Workplace Exposure Limit

### HEPTANE (CAS: 142-82-5)

<b>DNEL</b>	Consumer - Oral; Long term systemic effects: 148 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 149 mg/kg/day
	Industry - Dermal; Long term systemic effects: 300 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 447 mg/m <sup>3</sup>
	Industry - Inhalation; Long term systemic effects: 2085 mg/m <sup>3</sup>

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

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

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

<b>DNEL</b>	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>
<b>PNEC</b>	- Fresh water; 55.8 mg/l
	- Marine water; 55.8 mg/l
	- Intermittent release; 55.8 mg/l
	- STP; 709 mg/l
	- Sediment (Marinewater); 284.7 mg/kg
	- Soil; 22.5 mg/kg
	- Sediment (Freshwater); 284.7 mg/kg

### 8.2. Exposure controls

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### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Use explosion-proof general and local exhaust ventilation.

### 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.

### 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 hands at the end of each work shift and before eating, smoking and using the toilet.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

### Thermal hazards

Contact with hot product can cause serious thermal burns.

### Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid.
Colour	Amber.
Odour	Aromatic.
Odour threshold	Not determined.
pH	Not available.
Melting point	Not applicable.
Initial boiling point and range	80- 108°C @ 760 mm Hg
Flash point	-5°C CC (Closed cup).
Evaporation rate	Not available.
Evaporation factor	Not determined.
Flammability (solid, gas)	No information required.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.1 Upper flammable/explosive limit: 11.5

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<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.87 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in the following materials: Aromatic solvents.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	4,100- - 4,600 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.
<b>Volatility</b>	Highly volatile.
<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 648 g/litre.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not applicable.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

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**Hazardous decomposition products** Fire creates: Thermal decomposition or combustion products may include the following substances: Flammable gases or vapours. 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.

**ATE oral (mg/kg)** 1,408.45

##### Acute toxicity - dermal

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

**ATE dermal (mg/kg)** 3,802.82

##### 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** Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. The product contains organic solvents. 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 if inhaled.

**Ingestion** Harmful if swallowed.

**Skin contact** Irritating to skin.

**Eye contact** Irritating to eyes. This product is strongly irritating.

**Acute and chronic health hazards** May cause allergic contact eczema. May damage the unborn child.

**Route of entry** Inhalation Skin absorption

**Target organs** No specific target organs known.

**Medical symptoms** Symptoms following overexposure to vapour may include the following: Allergic rash. Dry skin. Headache. Intoxication.

#### Toxicological information on ingredients.

##### HEPTANE

##### Acute toxicity - oral

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

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**Species** Rat  
**ATE oral (mg/kg)** 2,500.0

**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)** 56.0

**Species** Rat  
**ATE inhalation (vapours mg/l)** 56.0

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

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

**Species** Rat  
**ATE oral (mg/kg)** 6,000.0

**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

**BUTANONE****Acute toxicity - oral**

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

**Species** Rat

**Acute toxicity - dermal**

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**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

**Species** Rat

**ATE inhalation (vapours mg/l)** 5,000

### GAROLITE DE

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,500.0

**Species** Rat

**ATE oral (mg/kg)** 5,500.0

### ROSIN

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 7,800.0

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,505.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,505

## SECTION 12: Ecological Information

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

#### HEPTANE

**Toxicity** Very toxic to aquatic organisms.

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

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

#### Chronic aquatic toxicity

**M factor (Chronic)** 1

#### TOLUENE

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours, 96 hours: 13 mg/l, Carassius auratus (Goldfish)  
LC<sub>50</sub>, 96 hours, 96 hours: 24 mg/l, Onchorhynchus mykiss (Rainbow trout)

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

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

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

#### BUTANONE

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 48 hours, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours, 48 hours: > 100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours, 96 hours: 2029 , Freshwater algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 96 hours, 96 hours: > 50 mg/l, Activated sludge

#### ROSIN

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

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<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 911 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: > 1,000 mg/l, Algae
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 3 hours, 3 hours: > 10,000 mg/l, Activated sludge

### 12.2. Persistence and degradability

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

**Phototransformation** Not relevant.

**Stability (hydrolysis)** Not determined.

**Biodegradation** Not determined.

**Biological oxygen demand** Not determined.

**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

#### BUTANONE

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

**Biodegradation** Air. - Degradation (%) 98: 28 days readily biodegradable

#### ROSIN

**Biodegradation** Water and sediment - Degradation (%) 71: 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: ,

#### BUTANONE

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**Bioaccumulative potential** The product is not bioaccumulating.

### 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

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

#### BUTANONE

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

### 12.5. Results of PBT and vPvB assessment

#### Ecological information on ingredients.

#### HEPTANE

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

#### TOLUENE

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

#### BUTANONE

**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

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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 (HEPTANE)
Proper shipping name (IMDG)	ADHESIVES (HEPTANE)
Proper shipping name (ICAO)	ADHESIVES (HEPTANE)
Proper shipping name (ADN)	ADHESIVES (HEPTANE)

### 14.3. Transport hazard class(es)

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



### 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 MARPOL73/78 and the IBC Code

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

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### 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).
<b>EU legislation</b>	System of specific information relating to Dangerous Preparations. 2001/58/EC.
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
<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.
<b>Water hazard classification</b>	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

#### 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>	28/04/2015
<b>Revision</b>	9

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### 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.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
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

EUH208 Contains ROSIN. May produce an allergic reaction.  
H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
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.  
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.

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.