

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

### 1.1 Product identifier

Trade name: **Special Blend Adhesive Cleaner (SB 12)**

Article number: UK5-7010

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

#### Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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

#### Manufacturer/Supplier:

Mykal Industries Limited

Tanhouse Lane

Widnes Cheshire

WA8 0RR

Tel: 0151-422 1180

Fax: 0151-422 1011

enquiries@mykal.co.uk

www.mykal.co.uk

#### Further information obtainable from:

Customer Service

Tel: 0151-422 1180 Fax: 0151-422 1011

#### 1.4 Emergency telephone number: Tel: 0151-422 1180

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22-65: Harmful if swallowed. Harmful: may cause lung damage if swallowed.



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

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

R10-67: Flammable. Vapours may cause drowsiness and dizziness.

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 2.2 Label elements

#### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

#### Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

#### Hazard-determining components of labelling:

(R)-p-mentha-1,8-diene

gamma-butyrolactone

#### Risk phrases:

10 Flammable.

## Safety data sheet

according to 1907/2006/EC, Article 31

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Version: 2

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- 22 Harmful if swallowed.  
 38 Irritating to skin.  
 41 Risk of serious damage to eyes.  
 43 May cause sensitisation by skin contact.  
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 65 Harmful: may cause lung damage if swallowed.  
 67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

- 2 Keep out of the reach of children.  
 13 Keep away from food, drink and animal feedingstuffs.  
 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
 24/25 Avoid contact with skin and eyes.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
 37/39 Wear suitable gloves and eye/face protection.  
 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 51 Use only in well-ventilated areas.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**








- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 96-48-0 EINECS: 202-509-5	gamma-butyrolactone	  R67	25-50%
CAS: 5131-66-8 EINECS: 225-878-4	3-butoxypropan-2-ol		25-50%
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene	    R10	25-50%

**Additional information; Ingrediënts according to detergents guideline EEC 89/542:**

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

Alcohol / glycol, Aliphatic hydrocarbons, perfumes (LIMONENE)	≥ 30%
preservation agents	< 5%

### 4 First aid measures

**4.1 Description of first aid measures**
**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Call for a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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### 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**  
Water  
Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

##### 5131-66-8 3-butoxypropan-2-ol

Oral	DNEL-	8.75 mg/kg human/day (worker)
Dermal	DNEL	44 mg/kg human/day (consumer)
		16 mg/kg human/day (worker)
Inhalative	DNEL	270.50 mg/m <sup>3</sup> (consumer)
		33.8 mg/m <sup>3</sup> (worker)

##### 5989-27-5 (R)-p-mentha-1,8-diene

Oral	DNEL-	4.76 mg/kg human/day (consumer)
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Inhalative	DNEL	33.3 mg/m <sup>3</sup> (worker)
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Not suitable are gloves made of the following materials:** Strong material gloves
- **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Sweetish
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	171°C
- **Flash point:** 21 - 55°C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 255°C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	0.7 Vol %
Upper:	15.6 Vol %

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· <b>Vapour pressure at 20°C:</b>	2.3 hPa
· <b>Density at 20°C:</b>	0.94 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Slightly soluble.
· <b>Segregation coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	65.8 %
· <b>9.2 Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

#### 96-48-0 gamma-butyrolactone

Oral	LD50	1580 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (gui)

#### 5131-66-8 3-butoxypropan-2-ol

Oral	LD50	3300 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50 / 4 h	>3.5 mg/ltr (Rat)
	EC 50 / 48 h (static)	>1000 mg/ltr (Daphnia magna (water flea))
	EC 50 / 96 h (static)	>1000 mg/ltr (Selenastrum capricornutum (Algae))
	LC50 / 96 h (static)	560-1000 mg/ltr (fish) (Poecilia reticulata)

#### 5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4400 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rat)
		>2000 mg/kg (Rabbit)
	EC50	34.1 mg/ltr (Daphnia magna (water flea))

#### 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	890 mg/kg (Rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful

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Irritant

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**12 Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****5131-66-8 3-butoxypropan-2-ol**

OECD test 301 E 90 (biodegradation in % after 28 days)

**5989-27-5 (R)-p-mentha-1,8-diene**

OECD test 301 D &gt;92 (biodegradation in % after 28 days)

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Very toxic for fish· **Additional ecological information:**· **General notes:**

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**13 Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation** Must not be disposed together with household waste. Do not allow product to reach sewage system.· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport information**· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**· **ADR**

1993 FLAMMABLE LIQUID, N.O.S., mixture (not viscous),

ENVIRONMENTALLY HAZARDOUS

· **IMDG**

FLAMMABLE LIQUID, N.O.S., mixture, MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S., mixture

· **14.3 Transport hazard class(es)**· **ADR**· **Class**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG**· **Class**

3 Flammable liquids.

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· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene
· <b>Marine pollutant:</b>	Yes
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Danger code (Kemler):</b>	30
· <b>EMS Number:</b>	F-E,S-E
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E

## 15 Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. Observe the general safety regulations when handling chemicals.

· **Code letter and hazard designation of product:**



Xn Harmful  
N Dangerous for the environment

· **Hazard-determining components of labelling:**

(R)-p-mentha-1,8-diene  
gamma-butyrolactone

· **Risk phrases:**

- 10 Flammable.
- 22 Harmful if swallowed.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 13 Keep away from food, drink and animal feedingstuffs.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 37/39 Wear suitable gloves and eye/face protection.

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- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
46 If swallowed, seek medical advice immediately and show this container or label.  
51 Use only in well-ventilated areas.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	50-75

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

- R10 Flammable.  
R22 Harmful if swallowed.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

Customer Services  
Tel: 0151-422 1180  
Fax: 0151-422 1011

· **Contact:**

Customer Service  
Tel: 0151-422 1180  
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- **\* Data compared to the previous version altered.**

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