



*Hazardous according to criteria of Australian Safety and Compensation Council*

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

- **Product identifier**
- **Trade name:** MSA Controls
- **Article number:** CT1010
- **Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MP Biomedicals Australasia Pty Limited  
2/29 Bearing Road  
Seven Hills, NSW 2147 Aust.  
Telephone Number: (02) 9838 7422  
Fax Number: (02) 9838  
www.mpbio.com
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
(02) 9838 7422: hours: 8.30 AM to 5.00 PM  
Poisons Information Service 13 11 26

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **Irritant**  
*Irritating to eyes.*
-  **Highly flammable**  
*Highly 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.*
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- **Additional information:** Hazchem Code: 2YE

### · Label elements

- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*

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



*Irritant  
Highly flammable*

- **Risk phrases:**  
*Highly flammable.*  
*Irritating to eyes.*

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

Trade name: MSA Controls

(Contd. of page 1)

Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

- **Safety phrases:**

Keep out of the reach of children.

Keep container tightly closed and in a well-ventilated place.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

If swallowed, seek medical advice immediately and show this container or label.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

67-63-0	propan-2-ol	90-100%
142-62-1	hexanoic acid	0-1%
128-37-0	2,6-di-tert-butyl-p-cresol	0-1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

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

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

Trade name: MSA Controls

(Contd. of page 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.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **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

- **Handling:**
- **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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 2-8°C
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>67-63-0 propan-2-ol</b>	
NES	Short-term value: 1230 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 983 mg/m <sup>3</sup> , 400 ppm

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

(Contd. on page 4)

AU

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

Trade name: MSA Controls

(Contd. of page 3)

· **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.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **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.*

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	82°C

· **Flash point:** 13°C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 410°C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	2.0 Vol %
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(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

Trade name: MSA Controls

(Contd. of page 4)

<b>Upper:</b>	12.0 Vol %
· <b>Vapour pressure at 20°C:</b>	43 hPa
· <b>Density at 20°C:</b>	0.80596 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition 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>	90-100 %
<b>VOC (EC)</b>	90-100 %
· <b>Solids content:</b>	0-1 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

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

### 11 Toxicological information

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

· <b>LD/LC50 values relevant for classification:</b>		
<b>67-63-0 propan-2-ol</b>		
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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:

(Contd. on page 6)

AU

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

Trade name: MSA Controls

Irritant

(Contd. of page 5)


### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                     |   |
|-------------------------------------|---|
| · <b>UN-Number</b>                  |   |
| · <b>ADR, IMDG, IATA</b>            | UN1993  |
| · <b>UN proper shipping name</b>    |   |
| · <b>ADR</b>                        | 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))                     |
| · <b>IMDG, IATA</b>                 | FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))                          |
| · <b>Transport hazard class(es)</b> |   |
| · <b>ADR, IMDG, IATA</b>            |   |
|                                     |  |
| · <b>Class</b>                      | 3 Flammable liquids.  |
| · <b>Label</b>                      | 3   |
| · <b>Packing group</b>              |   |
| · <b>ADR, IMDG, IATA</b>            | II  |

(Contd. on page 7)

AU

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 04.12.2012

Revision: 04.12.2012

**Trade name: MSA Controls**

(Contd. of page 6)

- |  |                             |
|--|-----------------------------|
| · <b>Environmental hazards:</b>  |                             |
| · <b>Marine pollutant:</b>   | No                          |
| · <b>Special precautions for user</b>  | Warning: Flammable liquids. |
| · <b>Danger code (Kemler):</b>   | 33                          |
| · <b>EMS Number:</b>   | F-E, <u>S-E</u>             |
| · <b>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>   | 1L                          |
| · <b>Transport category</b>  | 2                           |
| · <b>Tunnel restriction code</b>   | D/E                         |

### 15 Regulatory information

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

- **Australian Inventory of Chemical Substances**

67-63-0	propan-2-ol
102-76-1	triacetin
142-62-1	hexanoic acid
128-37-0	2,6-di-tert-butyl-p-cresol

- **Standard for the Uniform Scheduling of Drugs and Poisons**

None of the ingredients is listed.

- **Labelling according to EU guidelines:**

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

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



Irritant  
Highly flammable

- **Risk phrases:**

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

Keep out of the reach of children.

Keep container tightly closed and in a well-ventilated place.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

If swallowed, seek medical advice immediately and show this container or label.

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

AU

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

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Revision: 04.12.2012

**Trade name: MSA Controls**

(Contd. of page 7)

**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.*

· **Department issuing MSDS:** Product safety department

AU