

# SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1

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SDS Record Number: CSSS-TCO-010-140665

## MULTICLEAN

### 1. Identification of the material and supplier

**Material name:** MULTICLEAN

**Other Names:** -

**Recommended use:** Degreasing agent.

**Manufacturer:**

**Supplier(Manufacturer):** Novatech International N.V.  
\*TEC7 is a registered trademark of Novatech International N.V.

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B-2250 Olen

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**Emergency number:** +32 14 58 45 45

**Importer**

**Company name:** Olmurtech

**Address:** P.O. BOX 5939  
Brendale DC, QLD. 4500  
Australia  
[www.olmurtech.com.au](http://www.olmurtech.com.au)

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**Telephone:** +61 0 426 177 310

**Fax:** -

**Emergency number:** Poisons Information Centre ☎ 13 11 26

### 2. Hazards identification

**GHS classification:**

<b>Physical hazards:</b>	Aerosols	Category 1
<b>Health hazards:</b>	Not classified	
<b>Environmental hazards:</b>	Not classified	

**GHS label elements:**

**Hazard Pictograms: :**



**Signal word:**

Danger

**Hazard statement:**

Extremely flammable aerosol

Pressurized container: may burst if heated

**Precautionary statement:**

<b>Prevention:</b>	Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
<b>Response:</b>	Not applicable.
<b>Storage:</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>Disposal:</b>	Not applicable.
<b>Specific hazards:</b>	Not applicable.

**3. Composition/information on ingredients**

Components	CAS No.	Percent
2-butoxyethanol	111-76-2	2.5% ≤ C < 10 %
propan-2-ol	67-63-0	1% ≤ C < 2.5 %
isobutane	75-28-5	0.1% ≤ C < 1%
butane	106-97-8	2.5% ≤ C < 10 %
propane	74-98-6	2.5% ≤ C < 10 %

**4. First aid measures**

<b>Inhalation:</b>	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
<b>Skin:</b>	Rinse with water. Take victim to a doctor if irritation persists.
<b>Eye:</b>	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.
<b>Ingestion:</b>	Rinse mouth with water. Consult a doctor/medical service if you feel unwell.
<b>Notes to physician:</b>	Treat symptomatically.

**5. Fire-fighting measures**

<b>Suitable extinguishing media:</b>	Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.
<b>Extinguishing media which must not be used for safety reasons:</b>	Small fire: Quick-acting CO <sub>2</sub> extinguisher, Water (water can be used to control jet flame), Foam. Major fire: Water (water can be used to control jet flame), Foam.
<b>Specific hazards arising from the chemical:</b>	In case of fire, the following can be released: carbon monoxide, carbon dioxide. Pressurized container: May burst if heated.
<b>Fire Fighting:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>HAZCHEM code</b>	None.

**6. Accidental release measures**

<b>Personal precautions:</b>	Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment.
<b>Containment procedures:</b>	Dam up the liquid spill.
<b>Methods for cleaning up:</b>	Liquid spill: dilute with water. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## 7. Handling and storage

### Precautions for safe handling:

Use spark-/explosion proof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapor heavier than air at 20°C. Observe normal hygiene standards. Keep container tightly closed.

### Storage:

Storage temperature: < 50 °C. Protect against frost. Keep out of direct sunlight. Keep container in a well-ventilated place. Fireproof storeroom. Meet the legal requirements. Keep away from: Heat sources, ignition sources.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	STEL	242 mg/m <sup>3</sup>
		50 ppm
	TWA	96.9 mg/m <sup>3</sup> 20 ppm
butane (CAS 106-97-8)	TWA	1900 mg/m <sup>3</sup> 800 ppm
propan-2-ol (CAS 67-63-0)	STEL	1230 mg/m <sup>3</sup>
		500 ppm
	TWA	983 mg/m <sup>3</sup> 400 ppm

##### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	STEL	242 mg/m <sup>3</sup>
		50 ppm
	TWA	96.9 mg/m <sup>3</sup> 20 ppm
ammonia (CAS 1336-21-6)	STEL	24 mg/m <sup>3</sup>
		35 ppm
	TWA	17 mg/m <sup>3</sup> 25 ppm
butane (CAS 106-97-8)	TWA	1900 mg/m <sup>3</sup> 800 ppm
propan-2-ol (CAS 67-63-0)	STEL	1230 mg/m <sup>3</sup>
		500 ppm
	TWA	983 mg/m <sup>3</sup> 400 ppm

##### US. ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 1336-21-6)	STEL	35 ppm
	TWA	25 ppm
butane (CAS 106-97-8)	STEL	1000 ppm
propan-2-ol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup> 50 ppm
	TWA	123 mg/m <sup>3</sup> 25 ppm
ammonia (CAS 1336-21-6)	STEL	25 mg/m <sup>3</sup> 35 ppm
	TWA	18 mg/m <sup>3</sup> 25 ppm
butane (CAS 106-97-8)	STEL	1810 mg/m <sup>3</sup> 750 ppm
	TWA	1450 mg/m <sup>3</sup> 600 ppm
propan-2-ol (CAS 67-63-0)	STEL	1250 mg/m <sup>3</sup> 500 ppm
	TWA	999 mg/m <sup>3</sup> 400 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	49 mg/m <sup>3</sup> 10 ppm
butane (CAS 106-97-8)	TWA	2400 mg/m <sup>3</sup> 1000 ppm
propan-2-ol (CAS 67-63-0)	TWA	500 mg/m <sup>3</sup> 200 ppm
propane (CAS 74-98-6)	TWA	1800 mg/m <sup>3</sup> 1000 ppm

**Biological limit values:**

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	150 mg/g	Butoxyessigsäure (nach Hydrolyse)	Creatinine in urine	*
propan-2-ol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

\* - For sampling details, please see the source document.

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
propan-2-ol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

**Australia OELs: Skin designation**

2-butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

**Appropriate engineering controls:**

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protective equipment:**

**Eye/face protection:**

Protective goggles (EN 166).

<b>Skin protection:</b>	Protective clothing (EN 14605 or EN 13034).
<b>Respiratory protection:</b>	Full face mask with filter type A at conc. in air > exposure limit.
<b>Hand protection:</b>	Protective gloves against chemicals (EN 374). Materials: nitrile rubber, Thickness: 0.35 mm, Measured breakthrough time: > 480 minutes.

## 9. Physical and chemical properties

### Appearance:

<b>Physical state:</b>	Aerosol
<b>Form:</b>	Aerosol
<b>Color:</b>	Colorless
<b>Odor:</b>	Fruity odor
<b>Odour threshold:</b>	Not available
<b>PH:</b>	10.4
<b>Melting point/Freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	-97°C
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas) :</b>	Extremely flammable aerosol
<b>Upper/lower flammability or explosive limits:</b>	1.1 - 12 vol %
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	> 1
<b>Relative density:</b>	0.94 (20 °C)
<b>Solubility (H<sub>2</sub>O) :</b>	Soluble
<b>Partition coefficient (n-octanol/water) :</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Dynamic viscosity:</b>	Not available
<b>Kinematic viscosity:</b>	Not available
<b>Organic solvents:</b>	Not available
<b>Water:</b>	Not available
<b>VOC (EC) :</b>	Not available
<b>Solids contents:</b>	Not available
<b>Explosive properties:</b>	No chemical group associated with explosive properties
<b>Oxidising properties:</b>	No chemical group associated with oxidising properties
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available
<b>Absolute density:</b>	938 kg/m <sup>3</sup> (20 °C)

## 10. Stability and reactivity

<b>Reactivity:</b>	May be ignited by sparks. Gas/vapor spreads at floor level: ignition hazard.
<b>Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Incompatible materials. Use spark-/explosion proof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.
<b>Incompatible materials:</b>	Oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide.

## 11. Toxicological information

### Toxicological data:

<b>Acute toxicity:</b>	
<b>2-butoxyethanol (CAS#111-76-2)</b>	
<b>LD50(Oral, Rat):</b>	1414 mg/kg bw
<b>LD50(Dermal, Rat):</b>	> 2000 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	No data available.
<b>Serious eye damage/irritation:</b>	No data available.
<b>Respiratory or skin sensitization:</b>	No data available.
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	No data available.
<b>STOT- single exposure:</b>	No data available.
<b>STOT-repeated exposure:</b>	No data available.
<b>Aspiration hazard:</b>	No data available.
<b>Other information</b>	This product has no known adverse effect on human health.

## 12. Ecological information

### Toxicity:

#### 2-butoxyethanol (CAS#111-76-2)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	1474 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	1550 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	911 mg/L	72h	Algae	OECD 201	N/A	N/A

<b>Persistence and degradability:</b>	The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004
<b>Bioaccumulative potential:</b>	Does not contain bioaccumulative component(s)
<b>Mobility in soil:</b>	Contains component(s) with potential for mobility in the soil
<b>Other adverse effects:</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal methods:</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Waste from residues/unused products:</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging:</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### ADG

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS

<b>Hazard class</b>	2.1
<b>Packing group</b>	-
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>IATA</b>	
<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2.1
<b>Packing group</b>	-
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>IMDG</b>	
<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2.1
<b>Packing group</b>	-
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	-

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

##### **Australia Medicines & Poisons Appendix A/B/D/G/H/J/K / Australia Medicines & Poisons Schedule 10/2/3/4/6/7/8/9**

Poisons schedule number not allocated.

##### **Australia Medicines & Poisons Appendix E / Australia Medicines & Poisons Schedule 5**

butane (CAS 106-97-8)

##### **Australia Medicines & Poisons Appendix F**

ammonia (CAS 1336-21-6)

##### **Australia Medicines & Poisons Appendix I**

2-butoxyethanol (CAS 111-76-2)

##### **Australia National Pollutant Inventory (NPI): Threshold quantity**

ammonia (CAS 1336-21-6) 10 TONNES/YR Threshold Category: 1

##### **High Volume Industrial Chemicals (HVIC)**

2-butoxyethanol (CAS 111-76-2) 1000 - 9999 TONNES See the regulation for additional information.

butane (CAS 106-97-8) 100000 - 999999 TONNES See the regulation for additional information.

propan-2-ol (CAS 67-63-0) 1000 - 9999 TONNES See the regulation for additional information.

propane (CAS 74-98-6) 100000 - 999999 TONNES See the regulation for additional information.

##### **Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

##### **National Pollutant Inventory (NPI) substance reporting list**

Not listed.

##### **Prohibited Carcinogenic Substances**

Not regulated.

##### **Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2**

##### **NOHSC:1005 (1994) as amended)**

Not listed.

##### **Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

### Restricted Carcinogenic Substances

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable

#### Rotterdam Convention

Not applicable.

#### Kyoto protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

<b>Indication of changes:</b>	Version 1.0
<b>Training instructions:</b>	Not applicable.
<b>Further information:</b>	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
<b>Notice to reader:</b>	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.