

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 1.0

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HP CLEAN

1. Identification of the material and supplier

Material name: HP CLEAN

Other Names: -

Recommended use: Detergent.

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

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Brendale DC, QLD. 4500
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Contact person(E-mail): simone@olmurtech.com.au

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Fax: -

Emergency number: Poisons Information Centre ☎ 13 11 26

2. Hazards identification

GHS classification:

Physical hazards:	Not classified	
Health hazards:	Eye damage/irritation	Category 2A
Environmental hazards:	Not classified	

GHS label elements:

Hazard Pictograms: :



Signal word: Warning

Hazard statement: Causes serious eye irritation.

Precautionary statement:

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Prevention:	Wash hands thoroughly after handling. Wear eye protection/face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage:	Not applicable.
Disposal:	Not applicable.
Specific hazards:	Not applicable.

3. Composition/information on ingredients

Components	CAS No.	Percent
2-butoxyethanol	111-76-2	<5 %
alcohols, C9-11, ethoxylated	68439-46-3	<5 %
propan-2-ol	67-63-0	<5 %

4. First aid measures

Inhalation:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
Skin:	Rinse with water. Take victim to a doctor if irritation persists.
Eye:	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.
Notes to physician:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.
Extinguishing media which must not be used for safety reasons:	Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion. Major fire: Water; risk of puddle expansion.
Specific hazards arising from the chemical:	In case of fire, the following can be released: carbon monoxide, carbon dioxide.
Fire Fighting:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
HAZCHEM code	None.

6. Accidental release measures

Personal precautions:	Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment.
Containment procedures:	Contain released product, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up:	Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

7. Handling and storage

Precautions for safe handling:

Keep away from naked flames/heat. In finely divided state: use spark-/explosion proof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed.

Storage:

Store in a cool area. Keep container in a well-ventilated place. Meet the legal requirements. Max. Storage time: 365 day(s). Keep away from: Heat sources. Suitable packaging material: Synthetic material.

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 ³
	TWA	50 ppm
		96.9 mg/m ³
propan-2-ol (CAS 67-63-0)	STEL	20 ppm
	TWA	1230 mg/m ³
		500 ppm
		983 mg/m ³
		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 ³
	TWA	50 ppm
		96.9 mg/m ³
propan-2-ol (CAS 67-63-0)	STEL	20 ppm
	TWA	1230 mg/m ³
		500 ppm
		983 mg/m ³
		400 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 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 ³
	TWA	50 ppm
		123 mg/m ³
propan-2-ol (CAS 67-63-0)	STEL	25 ppm
	TWA	1250 mg/m ³
		500 ppm
		999 mg/m ³
		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 ³ 10 ppm
propan-2-ol (CAS 67-63-0)	TWA	500 mg/m ³ 200 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 25 mg/l	Aceton Aceton	Urine 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:

Eye protection not required in normal conditions.

Skin protection:

Protective clothing (EN 14605 or EN 13034).

Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

Hand protection:

Protective gloves against chemicals (EN 374). Materials: nitrile rubber, Thickness: 0.35 mm, Measured breakthrough time: > 480 minutes.

9. Physical and chemical properties

Appearance:

Physical state:

Liquid

Form:

Liquid

Color:

Colorless

Odor:

Characteristic odor

Odour threshold:

Not available

PH:

9.1

Melting point/Freezing point:

0 °C

Initial boiling point and boiling range:

76 °C - 360 °C

Flash point:

> 70 °C

Evaporation rate:

Not available

Flammability (solid, gas) :

Not available

Upper/lower flammability or explosive limits:

0.85 - 24.6 vol %

Vapor pressure:

Not available

Vapor density:

Not available

Relative density:

1.0 (20 °C)

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Solubility (H₂O) :	Soluble
Partition coefficient (n-octanol/water) :	Not available
Auto-ignition temperature:	200 °C
Decomposition temperature:	Not available
Dynamic viscosity:	1 mPa.s (20 °C)
Kinematic viscosity:	1 mm ² /s (20 °C)
Organic solvents:	Not available
Water:	Not available
VOC (EC) :	Not available
Solids contents:	Not available
Explosive properties:	No chemical group associated with explosive properties
Oxidising properties:	No chemical group associated with oxidising properties
Molecular Formula:	Not available
Molecular Weight:	Not available
Absolute density:	1018 kg/m ³ (20 °C)

10. Stability and reactivity

Reactivity:	Heating increases the fire hazard.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Incompatible materials. Keep away from naked flames/heat. In finely divided state: use spark-/explosion proof appliances. Finely divided: keep away from ignition sources/sparks.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide.

11. Toxicological information

Toxicological data:	
Acute toxicity:	
2-butoxyethanol (CAS#111-76-2)	
LD50(Oral, Rat):	1414 mg/kg bw
LD50(Dermal, Rabbit):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	No data available.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT- single exposure:	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.
Other information	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

Persistence and degradability:	The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004
Bioaccumulative potential:	Does not contain bioaccumulative component(s)
Mobility in soil:	Contains component(s) with potential for mobility in the soil
Other adverse effects:	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

Disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues/unused products:	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).
Contaminated packaging:	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

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	
Marine pollutant	No
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

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

15. Regulatory information

Safety, health and environmental regulations

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National regulations

Australia Medicines & Poisons Appendix A/B/D/E/F/G/H/J/K / Australia Medicines & Poisons Schedule 10/2/3/4/5/6/7/8/9

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

2-butoxyethanol (CAS 111-76-2)

High Volume Industrial Chemicals (HVIC)

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

propan-2-ol (CAS 67-63-0) 1000 - 9999 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)	No
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

Indication of changes:	Version 1.0
Training instructions:	Not applicable.
Further information:	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
Notice to reader:	<p>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.</p> <p>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.</p>