SAFETY DATA SHEET

according to Safe Work Australia

Universal Cleaner UC-S 500

Product number 733

1. Product identifier and identity for the chemical

Product identifier

Trade name: Universal Cleaner UC-S 500
This safety data sheet pertains to the following product:
42200060 Universal Cleaner UC-S 500

Recommended use of the chemical and restrictions on use

General use: Detergent/Cleaning agent.
For industrial purposes only

Suppliers name, address and phone number

Company name: PFERD Australia Pty. Ltd.
Street/POB-No.: Conifer Crescent 1-3
Postal Code, city: AU-3172 DINGLEY, VIC.
WWW: www.pferd.com
E-mail: sales@pferd.com.au
Telephone: (03) 95653200
Department responsible for information:
Telephone: (03) 95653200

Emergency phone number

Australia: 1-300-954-583
New Zealand: 0800-764-766

2. Hazard Identification

Classification of the hazardous chemical

GHS classification

This mixture is classified as not hazardous.

Additional information: The test L.2 for self-sustained combustion in accordance with UN, Part III section 32 is negative.

Label elements

Hazard statements: not applicable

Precautionary Statements:
not applicable

Other hazards which do not result in classification

Special danger of slipping by leaking/spilling product.

3. Composition / information on ingredients

Mixtures

Hazardous ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64-17-5	Ethanol 99.9 DRAA	5 - 10 %	Flammable liquid - Category 2. Eye irritation - Category 2A.
CAS 111-76-2	2-Butoxyethanol	< 5 %	Acute toxicity - oral - Category 4. Acute toxicity - dermal - Category 4. Acute toxicity - inhalation - Category 4. Skin irritation - Category 2. Eye irritation - Category 2A.

4. First Aid Measures

Description of necessary first aid measures

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Put victim at rest and keep warm. Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
Immediately get medical attention.

Symptoms caused by exposure

In case of inhalation: irritation to respiratory tract, Cough, shortage of breath
In case of ingestion:
gastrointestinal complaints, Headache, drowsiness, dizziness, inebriation, Nausea and vomiting.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
May cause irritations.
After eye contact: May cause irritations.

Medical Attention and Special Treatment

Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media

Water spray jet, Foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire fighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Use fine water spray to cool endangered containers.
Heating causes rise in pressure with risk of bursting.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with the substance. Wear appropriate protective equipment.
Do not breathe vapours. Provide adequate ventilation. Keep unprotected people away.

Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

Methods and material for containment and cleaning up

Clear spills immediately. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Wash spill area with plenty of water.
Special danger of slipping by leaking/spilling product.

7. Handling and Storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Do not breathe vapours. Avoid contact with skin and eyes.
Wear appropriate protective equipment. Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed.
Keep only in original container.
Protect from frost.

Hints on joint storage: Do not store together with food.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol 99.9 DRAA	Australia: OEL-TWA	1880 mg/m³; 1000 ppm
111-76-2	2-Butoxyethanol	Australia: OEL-STEL	242 mg/m³; 50 ppm (may be absorbed through the skin)
		Australia: OEL-TWA	96.9 mg/m³; 20 ppm (may be absorbed through the skin)

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protective equipment (PPE)

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn according to AS/NZS 1715 and AS/NZS 1716 whenever the WEL levels have been exceeded.
Use combination filter type A according to EN 14387.

Hand protection: Protective gloves according to AS/NZS 2161.
Glove material: Nitrile rubber
Layer thickness: >0,4 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed eye protectors according to AS/NZS 1337.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe vapours. Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: colourless

Odour: characteristic

Odour threshold: No data available

pH: 11.4

Melting point/freezing point: No data available

Initial boiling point and boiling range: 90 °C (1013 hPa)

Flash point/flash point range: approx. 38 °C

Evaporation rate: No data available

Flammability:	The test L.2 for self-sustained combustion in accordance with UN, Part III section 32 is negative.
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: approx. 0.99 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available

Additional information

Viscosity, kinematic:	at 20 °C: 19 s (DIN 4mm)
Volatile organic compounds content (VOC):	11 % by weight = 108.9 g/L

10. Stability and Reactivity

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:
No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: Protect from frost.

Incompatible materials: No data available

Hazardous decomposition products:
No known hazardous decomposition products.

Thermal decomposition: No data available

11. Toxicological information

Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 20 mg/L

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about Ethanol:
LD50, Rat, oral: 10470 mg/kg (OECD 401)
LD50, Rabbit, dermal: 20000 mg/kg
LD50, Rat, inhalative: 116,9-133,8 mg/L/4h (OECD 403)

Information about 2-Butoxyethanol:
LD50, Rat, oral: 1250-1490 mg/kg (OECD 401)
LD50, Rabbit, dermal: 841 mg/kg (OECD 402)
LC50, Rat, inhalative: 2-20 mg/L/4h

Symptoms

In case of inhalation: irritation to respiratory tract, Cough, shortage of breath
In case of ingestion:
gastrointestinal complaints, Headache, drowsiness, dizziness, inebriation, Nausea and vomiting.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
May cause irritations.
After eye contact: May cause irritations.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Information about Ethanol:
Algae toxicity:
EC50 Chlorella vulgaris: 675 mg/L/4d (OECD 201)
Bacterial toxicity:
EC50 Pseudomonas putida: 5,8 g/L/4h
Acute Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 5012 mg/L/48 h
Chronic daphnia toxicity:
LC50 Daphnia magna (Big water flea): 1806 mg/L/10 d
NOEC Daphnia magna (Big water flea): 2-9,6 mg/L/10 d.
Acute fish toxicity:
LC50 Pimephales promelas (fathead minnow): 14,2 g/L/96 h.
Chronic (long-term) fish toxicity:
LC50 fish: 9164-14536 mg/L/200 h

Information about 2-Butoxyethanol:
Algae toxicity:
EC50: 1840 mg/L/72h (OECD 201)
Chronic algae toxicity:
NOEC algae: 286 mg/L/72 d (OECD 201) (OECD 211).
Acute Daphnia toxicity:
LC50 Daphnia magna (Big water flea): 1815 mg/L/24h (DIN 38412).
Chronic daphnia toxicity:
LC50 Daphnia magna (Big water flea): 297 mg/L/21 d (OECD 211).
NOEC Daphnia magna (Big water flea): 100 mg/L/21 d (OECD 211).
Acute fish toxicity:
LC50 Oncorhynchus mykiss: 1474 mg/L/96h (OECD 203).
Chronic (long-term) fish toxicity:
NOEC Danio rerio (zebrafish): >100 mg/L/21 h (OECD 204).

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Persistence and degradability

Further details:
Biodegradability
Information about Ethanol: approx. 84 %/20 d (Easily bio-degradable)
Information about 2-Butoxyethanol: 88 %/20 d.

Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

14. Transport information

Land transport (ADG)

Product designation: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.
The test L.2 for self-sustained combustion in accordance with UN, Part III section 32 is negative.

Hazchem-Code:

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15. Regulatory information

National regulations - Australia

No data available

Further regulations, limitations and legal requirements

No data available

16. Other information

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 3: classification Component
Date of first version: 25/8/2016

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.