

# DET&RINSE PLUS (AU)

## Safety Data Sheet

Date: 14/10/2016

Rev.02

according to the Model Work Health and Safety Regulations

### SECTION 1: Identification : Product identifier and chemical identity

#### 1.1. Product identifier

Product form : Mixture  
Trade name : DET&RINSE PLUS (AU)  
Product code : DB1015A0

#### 1.2. Recommended uses and restrictions

Identify use: ALKALINE DETERGENT FOR OVENS –  
Sector of use: SU 22 - PROFESSIONAL USE  
Product category: PC35 – PRODUCT FOR WASHING AND CLEANING (SOLVENT BASED PRODUCT)

ANY USE THAT IS NOT DESCRIBED IN THIS SHEET AND IN THE TECHNICAL DOCUMENTATION IS TO BE CONSIDERED INCORRECT/NOT RECOMMENDED

#### 1.3. Supplier information

##### Supplier

Unox Australia Pty. Ltd  
7/100 New St, Ringwood VIC 3134, Australia  
T [+61 3 9876 0803](tel:+61398760803)  
email [info@unoxaustralia.com.au](mailto:info@unoxaustralia.com.au) - website <http://www.unox.com/>

**Emergency telephone number:** Poisons Information Centre (Australia-wide)  
131 126

### SECTION 2: Hazards identification

#### 2.1. Classification of the hazardous chemical

Corrosive to metals, Category1 H290

Skin corrosion/irritation, Category 1A H314

Full text of H statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Hazard pictograms (GHS-AU) :



Hazard pictograms (GHS-AU) :

GHS05

Signal word (GHS-AU) :

Danger

Hazard statements (GHS-AU) :

H290 – May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-AU) :

Wear appropriate PPE  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Specific treatment (see no specific first aid medical treatment seek for a doctor advice on this label)  
Store locked up  
Dispose of contents/container to in accordance to the Commonwealth, State or Territory legislation

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### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

### SECTION 3: Composition/information on ingredients

Name	CAS No	Compound type	%	Classification according to Australia HSIS United Nations GHS
(2-methoxymethylethoxy)propanol	34590-94-8	substance	5 - 15	Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal)
CAPRYLYL/CAPRYL GLUCOSIDE	68515-73-1	substance	3 - 15	Skin Irrit. 2, H315 Eye Dam. 1, H318
potassium hydroxide; caustic potash	1310-58-3	substance	5 - 15	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Alcohols, C10-C12, Ethoxylated Propoxylated	68154-97-2	substance	1 - 4	Eye Dam. 1, H318
2-Ethylhexyl sodium sulfate	126-92-1	substance	0 - 1	Acute Tox. Not classified (Oral) Skin Irrit. 2, H315 Eye Dam. 1, H318
Sulfonic acids, C13-18-sec-alkane, sodium salts	75534-59-7	substance	0 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: seek for a doctor advice. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Symptoms caused by exposure

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

##### HAZARD CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Combustion may lead to the formation of dangerous gases and/or vapours. Exposure to the decomposition may lead to health damage. Do not breathe the combustion products.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### SECTION 7: Handling and storage, including how the chemical may be safely used

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Wash entire body thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

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- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : child availability. Keep in fireproof place. Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### Exposure limit values for the other components

No additional information available

#### 8.2. Monitoring

No additional information available

#### 8.3. Appropriate engineering controls

No additional information available

#### 8.4. Personal protective equipment

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear protective gloves
- Eye protection : Chemical goggles or safety glasses
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended
- Other information : Do not eat, drink or smoke during use.

### 9.1. SECTION 9: Physical and chemical properties

- Physical state : Liquid
- Appearance :  
Liquid.
- Colour : light yellow
- Odour : characteristic
- Odour threshold : No data available
- pH :  $\approx 14$
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point / Freezing point : Melting point :  $< 0$  °C
- Boiling point :  $\approx 105$  (105 - 110) °C

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Flash point	: > 60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Relative density : $\approx$ 1.1 - 1.25 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity	: Viscosity : 1 - 50 mPa.s
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
VOC content	: $\approx$ 3.4 %
Fat solubility	: No data available

### 10.1. SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport. The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
Incompatible materials	: Strong acids. Strong bases.
Hazardous decomposition products	: fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### 11.1. SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### dipropylene glycol monomethyl ether (34590-94-8)

LD50 oral rat	5135 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg; Rat; Experimental value)
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### dipropylene glycol monomethyl ether (34590-94-8)

LD50 dermal rat	9500 mg/kg (Rat; Literature study; Equivalent or similar to OECD 402; >19020 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	9500 mg/kg (Rabbit; Literature study)

### 2-Ethylhexyl sodium sulfate (126-92-1)

LD50 oral rat	4 g/kg
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Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: ≈ 14
Serious eye damage/irritation	: Causes serious eye damage. pH: ≈ 14
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

### 12.1. Ecotoxicity

Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. No known ecological damage caused by this product.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Other information	: Avoid release to the environment.

### (2-methoxymethylethoxy)propanol (34590-94-8)

EC50 Daphnia 1	1919 mg/l (LC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
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<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
Log Pow	0.0043 (Experimental value; OECD 102: Melting Point/Melting Range; 25 °C)
Threshold limit algae 1	969 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)
Threshold limit algae 2	> 969 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)

### 12.2. Persistence and degradability

<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
Persistence and degradability	Readily biodegradable in water. No (test) data on mobility of the substance available. Photolysis in the air.
ThOD	2.06 g/L/g substance

### 12.3. Bioaccumulative potential

<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
Log Pow	See section 12.1 on ecotoxicology

### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : May cause pH changes in aqueous ecological systems.

<b>DET&amp;RINSE PLUS (AU)</b>	
Fluorinated greenhouse gases	Not contained
GWP mix comment	No known effects from this product.

<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
Fluorinated greenhouse gases	Not contained

<b>CAPRYLYL/CAPRYL GLUCOSIDE (68515-73-1)</b>	
Fluorinated greenhouse gases	Not contained

<b>potassium hydroxide; caustic potash (1310-58-3)</b>	
Fluorinated greenhouse gases	Not contained

<b>Alcohols, C6-C12, Ethoxylated Propoxylated (68937-66-6)</b>	
Fluorinated greenhouse gases	Not contained

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### 2-Ethylhexyl sodium sulfate (126-92-1)

Fluorinated greenhouse gases	Not contained
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### Sulfonic acids, C13-18-sec-alkane, sodium salts (75534-59-7)

Fluorinated greenhouse gases	Not contained
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## SECTION 13: Disposal considerations

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations Commonwealth, State or Territory legislation. Dispose of contents/container to local legislation.
- Additional information : Handle empty containers with care because residual vapours are flammable.
- Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN number

- UN-No. (ADG) : 1814
- UN-No. (IMDG) : -1814
- UN-No.(IATA) : 1814

### 14.2. Proper Shipping Name

- Proper Shipping Name (ADG) : **-POTASSIUM HYDROXIDE SOLUTION**
- Proper Shipping Name (IMDG) : **-POTASSIUM HYDROXIDE SOLUTION-**
- Proper Shipping Name (IATA) : **-POTASSIUM HYDROXIDE SOLUTION**

### 14.3. Transport hazard class(es)

#### ADG

- Transport hazard class(es) (ADG) : 8
- Danger labels (ADG) : 8



#### IMDG

- Transport hazard class(es) (IMDG) : 8
- Danger labels (IMDG) : 8





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### IATA

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8

:



### 14.4. Packing group

Packing group (ADG) : II

Packing group (IMDG) : II

Packing group (IATA) : II

### 14.5. Environmental hazards for Transport Purposes

Marine pollutant : No

Environmental hazards : No

### 14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available

#### Transport by road and rail

UN-No. (ADG) : 1814

Transport regulations (ADG) : Subject to the provisions

#### Transport by sea

UN-No. (IMDG) : 1814

Transport regulations (IMDG) : Subject

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

Stowage category (IMDG) : A

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### Air transport

UN-No.(IATA)	:	1814
Transport regulations (IATA)	:	Subject to the provisions
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L
Special provisions (IATA)	:	A3 A803
ERG code (IATA)	:	8L

### 14.8. Hazchem or Emergency Action Code

Hazchemcode : 2R

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Listed on the AICS (Australian Inventory of Chemical Substances) : Listed on the AICS (Australian Inventory of Chemical Substances)

Poison schedule (SUSMP): No Poisons Schedule number allocate  
Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

### 15.2. International agreements

No additional information available

## SECTION 16: Any other relevant information

Indication of changes:  
Transport information. Composition/information on ingredients.

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Abbreviations and acronyms : Full text of other abbreviations AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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Other information : None.

Classification:

Skin Corr. 1A	H314
Eye Dam. 1	H318

Full text of H-phrases::

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Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 4	Flammable liquids, Category 4
Flam. Liq. Not classified	Flammable liquids Not classified
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Met. Corr. 1	Substance or mixture corrosive to metals – Category. 1
H290	May be corrosive to metals
H227	Combustible liquid
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

### SDS Australia

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications.

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