

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

### 1.1. Product identifier

Name of product MK-dent PREMIUM SERVICE ÖL (LU1022)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

#### Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Recommended intended purpose(s)

lubricant

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer/distributor

MK-dent Australia Pty Ltd  
U14/1, Ricketts Road, Mount Waverle, Vic - 3149  
Phone +61/3/9544 6980, Fax +61/3/9544 6946  
E-Mail info@mk-dent.com.au

#### Advice

Produktinformation  
Phone +61/3/9544 6980  
Fax +61/3/9544 6946

### 1.4. Emergency telephone number

#### Emergency advice

Poison Information Center Australia  
Phone +461/13 11 26

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC

F+; R12  
R52/53

#### R-phrases

12 Extremely flammable.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Aerosol 1	H222, H229
Compr. Gas	H280
Aquatic Chronic 3	H412

#### Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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### 2.2. Label elements

**Labelling according to 1999/45/EC**

**Remarks for labelling**

The product is classified and labelled in accordance with EC directives.

**F+** Extremely flammable



**R-phrases**

12 Extremely flammable.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases**

1/2 Keep locked up and out of the reach of children.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe spray.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
7 Keep container tightly closed.  
9 Keep container in a well-ventilated place.

**Special rules for supplemental label elements for certain mixtures**

Keep away from sources of ignition - No smoking  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Keep out of the reach of children.

**2.3. Other hazards**

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/ information on ingredients**

**3.1. Substances**

not applicable

**3.2. Mixtures**

**Description**

ester oil

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
74-98-6	200-827-9	propane	25 - 30	F+ R12
106-97-8	203-448-7	butane	25 - 30	F+ R12
111-65-9	203-892-1	n-octane	0,3	F R11; Xn R65; Xi R38; R67; N R50-53

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
74-98-6	200-827-9	propane	25 - 30	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	25 - 30	Flam. Gas 1, H220 / Press. Gas
111-65-9	203-892-1	n-octane	0,3	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.  
Take affected person into fresh air.

#### **In case of inhalation**

Remove the casualty into fresh air and keep him immobile.  
In the event of symptoms refer for medical treatment.

#### **In case of skin contact**

In case of irritation consult a doctor.  
In case of contact with skin wash off with water.

#### **In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
Remove contact lens

#### **In case of ingestion**

Do not induce vomiting.  
Medical treatment.  
Rinse out mouth thoroughly with water.

### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

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

#### **Treatment (Advice to doctor)**

Treat symptoms.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Dry fire-extinguishing substance  
Carbon dioxide  
Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

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

Fire gas of organic material has to be classed invariably as respiratory poison.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Breathing protection and eye protection is required for fire-fighting under presence of fume and vapour

#### **Additional information**

Cool endangered containers with water spray and possibly remove them from fire site.  
Collect contaminated firefighting water separately, must not be discharged into the drains.

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## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

Avoid skin and eye contact

#### **For emergency responders**

Remove persons to safety.

Keep people away and stay on the upwind side.

Use personal protective clothing.

Keep away sources of ignition.

### **6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Take up with absorbent material.

#### **Additional Information**

Inform competent authorities in case of leakage to sewage system/surface water/groundwater.

### **6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid formation of aerosols.

#### **General protective measures**

Take the usual precautions when handling with chemicals.

#### **Hygiene measures**

Please observe work hygiene regulations.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

#### **Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention.

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

#### **Requirements for storage rooms and vessels**

Keep in closed original container.

#### **Advice on storage compatibility**

Keep away from foods and beverages

Keep away from ignition sources.

Store at distance to oxidising agents.

Do not store together with alkalies.

Keep at distance to acids.

#### **Further information on storage conditions**

Keep container tightly closed and store at cool and aired place.

Protect from direct solar radiation.

Protect from heat and direct solar radiation.

**7.3. Specific end use(s)**  
**Recommendation(s) for intended use**  
 See section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	

### 8.2. Exposure controls

#### Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.  
 Breathing apparatus in the event of aerosol or mist formation.

#### Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrilrubber (index 1)  
 The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.  
 The exact breakthrough time of the glove material is to be inquired from the protection glove manufacturer and must be strictly adhered to.

#### Eye protection

safety goggles with side protection

#### Other protection measures

Protective clothing

#### Appropriate engineering controls

Sufficient ventilation and exhaustion.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b> aerosol	<b>Colour</b> yellowish	<b>Odour</b> characteristic
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#### Odour threshold

No data available

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>Boiling temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	ca. -80 °C				
<b>Vapourisation rate</b>	not determined				

	Value	Temperature	at	Method	Remark
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	ca. 400 °C				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P OW)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	Bildung explosionsfähiger Dampf-/Luftgemische möglich.				
<b>9.2. Other information</b>	no				

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known.

### 10.2. Chemical stability

Stable under the stated storage temperature.

### 10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reactions with oxidising agents.

### 10.4. Conditions to avoid

strong heating

sunlight

**10.5. Incompatible materials**

**Substances to avoid**

strong acids  
oxidizing agent  
alkalis

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Thermal decomposition**

Remark No decomposition if used as directed.

**Additional information**

No risk of production of decomposition products when appropriately handled and stored

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	No data available			
<b>LD50 acute dermal</b>	No data available			
<b>LC50 acute inhalation</b>	No data available			
<b>Skin irritation</b>	low irritant effect - not necessary to label			
<b>Eye irritation</b>	low irritant - no labeling duty			
<b>Skin sensitization</b>	No data available			
<b>Sensitization respiratory system</b>	No data available			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	No data available			
<b>Subchronic Toxicity</b>	No data available			
<b>Chronic Toxicity</b>	No data available			
<b>Mutagenicity</b>	No data available			
<b>Reproduction-Toxicity</b>	No data available			
<b>Carcinogenicity</b>	No data available			

**Specific target organ toxicity (single exposure)**

no

**Specific target organ toxicity (repeated exposure)**

no

**Aspiration hazard**

no

**Toxicity test (Additional information)**

No data available

**Experiences made from practice**

No data available

**Additional information**

No toxicological data available.

Other hazardous properties may not be excluded.

The product is to be handled with the caution usual with chemicals.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	No data available.			
<b>Daphnia</b>	No data available.			
<b>Algae</b>	No data available.			
<b>Bacteria</b>	No data available.			

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	No data available.			
<b>Biological degradability</b>	No data available.			
<b>Degradability</b>	No data available.			

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**General regulation**

While intended handling are no environmental pollutions admitted and to expect.

Ecological data are not available.

Do not allow uncontrolled leakage of product into the environment.



## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste code No.	Name of waste
15 01 04	metallic packaging

### Recommendations for the product

Consult the appropriate local waste disposal expert about waste disposal.  
 Remove in accordance with local official regulations.

### Recommendations for packaging

Dispose of in accordance with legal regulations.  
 Packaging that cannot be cleaned should be disposed of like the product.

### General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.  
 The classification of waste is always the responsibility of the end user.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

### 14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
 not applicable

### Land and inland navigation transport ADR/RID

Hazard label(s) 2.1  
 tunnel restriction code D  
 Classification code 5F

## SECTION 15: Regulatory information

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

No information available.

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Sources of key data used

Data sheets of the sub-supplier.

### Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 11 Highly flammable.

R 12 Extremely flammable.

R 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.