UnoDent Rotary Instrument Cleanser

Version 03.00
Revision Date 09.03.2015
Date of last issue 29.10.2012
Date of first issue 25.09.2007

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

1.1 Product identifier

Trade name : UnoDent Rotary Instrument Cleanser (GEU010)

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

Use of the Substance/Mixture : Disinfectants

Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier:	Made for UnoDent Ltd.	Tel: 01376 500582
Address:	10 Perry Way, Witham, Essex CM8 3SX, UK	Fax: 01376 500581
Information sector:	Technical Department	Tel: 01376 500582
Emergency information:	Technical Department	
Emergency e-mail:	info@unodent.com	

1.4 Emergency telephone number

Further information obtainable from: *Regulatory Affairs / Quality Assurance:* *feedback@unodent.com*
· ***1.4 Emergency telephone numbers: +44 (0) 1376 500582***

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Irritant	R36/38: Irritating to eyes and skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H290	May be corrosive to metals.
		H314	Causes severe skin burns and eye damage.
Precautionary statements	:	P280	Wear protective gloves/ eye protection.
		P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		P303+P361+P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
		P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
		P501	Dispose of contents/ container to an approved waste disposal plant.

Special labelling of certain mixtures	:	Labelling according to Regulation (EC) No. 648/2004: (< 5 % non-ionic surfactants,)
Further information	:	The product is classified in accordance with Annex VI (2.6.4.5) to Regulation (EC) 1272/2008.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
No special risks known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

Chemical Name	Index-Number CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Propan-2-ol	603-117-00-0 200-661-7 01-2119457558-	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10 %

	25-XXXX			
Potassium hydroxide	019-002-00-8 215-181-3 01-2119487136-33-XXXX	Xn; R22 C; R35	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290	1 - 2 %

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.
In case of skin contact : Wash off immediately with plenty of water.
In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed : Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Alcohol-resistant foam, Water spray jet, Carbon dioxide (CO2)
Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : none

Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks to be expected.

5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

for firefighters

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : not required under normal use
Advice on protection against fire and explosion : No special protective measures against fire required.
Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.
Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.

Advice on common storage : Keep away from food and drink.
Do not store near acids.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis

67-63-0		WEL	400 ppm 999 mg/m3	HSE
67-63-0		WEL	500 ppm 1.250 mg/m3	HSE
1310-58-3		WEL	2 mg/m3	HSE

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Propan-2-ol : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 888 mg/m3
End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 500 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Propan-2-ol : Fresh water, Value: 140,9 mg/l
Marine water, Value: 140,9 mg/l
Fresh water sediment, Value: 552 mg/kg
Marine sediment, Value: 552 mg/kg
Soil, Value: 28 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures : Avoid contact with skin and eyes.

Environmental exposure controls

General advice : Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	Colourless
Odour		Alcohol-like
Odour Threshold	:	Not determined
Flash point	:	36 °C, DIN 51755 Part 1
Ignition temperature	:	Propan-2-ol: 425 °C
Auto-ignition temperature	:	Not applicable
Lower explosion limit	:	Propan-2-ol: 2 %(V)
Upper explosion limit	:	Propan-2-ol: 12 %(V)
Flammability	:	Does not sustain combustion.
Explosive properties	:	Not explosive

Oxidizing properties	:	Not applicable
pH	:	13,7, 20 °C, (undiluted)
Melting point/freezing point	:	< -5 °C
Decomposition temperature		Not applicable
Boiling point/boiling range	:	ca. 80 °C
Vapour pressure	:	ca. 34 hPa, 20 °C
Relative vapour density	:	No data available
Density	:	ca. 1,00 g/cm3, 20 °C
Water solubility	:	in all proportions, 20 °C
Partition coefficient: n-octanol/water	:	Not applicable
Flow time	:	< 15 s at 20 °C, DIN 53211
Evaporation rate	:	No data available

9.2 Other information

Corrosive in contact with metals	:	> 6,25 mm/a, Corrosive to metals Aluminium

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

reaction with acids

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Possible incompatibility with alkali sensitive materials.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: ca. 115000 mg/kg, Estimation of acute oral toxicity, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute inhalation toxicity	:	Acute toxicity estimate: 50 mg/l, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)

Acute dermal toxicity	:	Acute toxicity estimate: >15000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)

Skin corrosion/irritation

Product

Causes severe skin burns and eye damage. Calculation method.

Serious eye damage/eye irritation

Product

Causes severe skin burns and eye damage. Calculation method.

Respiratory or skin sensitisation

Components:

Propan-2-ol:
Did not cause sensitisation on laboratory animals. Buehler Test, Guinea pig
Potassium hydroxide:
Did not cause sensitisation on laboratory animals. Guinea pig

Germ cell mutagenicity

Components:

Propan-2-ol:

Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.

Potassium hydroxide:

Genotoxicity in vitro	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

Propan-2-ol:

Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.

Potassium hydroxide:

Carcinogenicity - Assessment	:	No data available

Reproductive toxicity

Components:

Propan-2-ol:

Reproductive toxicity - Assessment	:	Animal testing did not show any effects on fertility.

Teratogenicity - Assessment	:	Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.
Potassium hydroxide:		
Reproductive toxicity - Assessment	:	No data available
Teratogenicity - Assessment	:	No data available

STOT - single exposure

Components:

Propan-2-ol:

May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

Propan-2-ol:

Based on available data, the classification criteria are not met.

Aspiration toxicity
No data available

Further information

Product

There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Product

Toxicity to bacteria	:	EC50: 10.700 mg/l, OECD 209

12.2 Persistence and degradability

Product

Biodegradability	:	Readily biodegradable. OECD 301D / EEC 84/449 C6
Chemical Oxygen Demand (COD)	:	3.200 mg/l, 1% solution
Components:		
67-63-0:		
Biodegradability	:	Readily biodegradable.
1310-58-3:		
Biodegradability	:	The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product

Partition coefficient: n-octanol/water	:	Not applicable

Components:
67-63-0:

Bioaccumulation	:	No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	log Pow: 0,05 (20 °C) , OECD Test Guideline 107

1310-58-3:

Bioaccumulation	:	Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:
67-63-0:

Mobility	:	Mobile in soils

1310-58-3:

Mobility	:	No data available

12.5 Results of PBT and vPvB assessment

Product
This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects

Product

Additional ecological information	:	none

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	:	Take empty packaging to the recycling plant.
Waste key for the unused product	:	European waste catalog (EWC) 070601
Waste key for the unused product(Group)	:	Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1814
IMDG	:	UN 1814
IATA	:	UN 1814

14.2 UN proper shipping name

ADR	:	POTASSIUM HYDROXIDE, SOLUTION

IMDG	:	POTASSIUM HYDROXIDE SOLUTION
IATA	:	Potassium hydroxide, solution

14.3 Transport hazard class(es)

ADR	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADR

Packing group	:	III
Classification Code	:	C5
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	E

IMDG

Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B

IATA

Packaging instruction (cargo Airfraft)		856
Packing group	:	III
Labels	:	8

14.5 Environmental hazards

ADR

Environmentally hazardous	:	no

IMDG

Marine pollutant	:	no

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Legislation on the control of major-accident hazards involving dangerous substances	:	Directive 96/82/EC does not apply
Volatile organic compounds	:	10 %, Directive 2010/75/EC on the limitation of emissions of

volatile organic compounds

Other regulations : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2 Chemical Safety Assessment

Exempt

SECTION 16: Other information

Full text of R-Phrases

R11	:	Highly flammable.
R22	:	Harmful if swallowed.
R35	:	Causes severe burns.
R36	:	Irritating to eyes.
R67	:	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H290	:	May be corrosive to metals.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

Further information

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.