

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Korsolex Bohrerbad Bur Cleanser & Disinfectant – Ready to use
 Product Code: 0887

Application: Disinfection of instruments

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2. HAZARD IDENTIFICATION

Classification of the substance or mixture:

Classification (REGULATION (EC) No. 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage
Specific target organ toxicity Single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness

Label elements:

Labelling (REGULATION (EC) No. 1272/2008)



Hazard pictograms:

Signal word:

Danger

Hazard statements:

H226: Flammable liquid and vapour
 H314: Causes severe skin burns and eye damage
 H336: May cause drowsiness or dizziness

Precautionary statements:

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280: Wear protective gloves/clothing, eye protection and face protection.

Response:

P303 + P361 + P353: IF ON SKIN (or hair) – remove/take off Immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE or doctor/physician.

Disposal:
 P501: Dispose of contents/container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Propan-1-ol (CAS: 71-23-8)

Potassium hydroxide (CAS: 1310-58-3)

Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No. EC No. Registration No.	Classification REGULATION (EC) No. 1272/2008	Concentration [%]
Propan-1-ol	71-23-8 200-746-9 01-2119486761-29	Flam. Liq. 2: H225 Eye Dam. 1: H318 STOT SE3; H336	>=10 - < 15
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq.2: H225 Eye Irrit.2: H319 STOT SE3: H336	>=3 - < 10
Potassium hydroxide	1310-58-3 215-181-3	Accute Tox.4: H302 Skin Corr.1A: H314 Aquatic Chronic3: H412	>=1 - < 2

For explanation of abbreviations see Section 16.

4. FIRST AID MEASURES

General advice: Call a physician immediately.
If inhalation: Move to fresh air.
In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with plenty of water.
In case of eye contact: Rinse immediately with plenty of lukewarm water, also under the eye lids, for at least 15 minutes.
If swallowed: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

No data available.

Indication of any immediate medical attention and special treatment needed:

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

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting:

Cool closed containers exposed to fire with water spray.

Hazardous combustion products:

No hazardous combustion products are known.

Special protective equipment for fire fighters:

Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Ensure adequate ventilation.

Methods and materials for containment and cleaning up:

Methods for cleaning up: Soak up inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Reference to other sections:

For personal protection see Section 8.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Handle and open container with care.

Advice on protection against fire and explosion: Keep away from sources of ignition. No smoking.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Store at room temperature in the original container. Keep tightly closed.

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

Specific end use(s):

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Contains no substances with occupational exposure limit values.

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

Propan-1-ol End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 136mg/kg

	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 268 mg/m ³
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Short-term exposure
	Value: 1723 mg/m ³
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 81 mg/kg
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 80 mg/m ³
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Short-term exposure
	Value: 1036 mg/m ³
	End Use: Consumers
	Exposure routes: Ingestion
	Potential health effects: Long-term systemic effects
	Value: 61 mg/kg
Propan-2-ol	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Chronic effects
	Value: 888 mg/kg
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Chronic effects
	Value: 500 mg/m ³
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Chronic effects
	Value: 319 mg/kg
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Chronic effects
	Value: 89 mg/m ³
	End Use: Consumers
	Exposure routes: Ingestion
	Potential health effects: Chronic effects
	Value: 26 mg/kg
Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:	
Propan-1-ol	Fresh water
	Value: 10 mg/l
	Soil
	Value: 2,2 mg/kg

	Marine water
	Value: 1 mg/l
	Fresh water sediment
	Value: 22,8 mg/kg
	Marine sediment
	Value: 2,28 mg/kg
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

Exposure controls:

Personal protective equipment

Eye protection:	Tightly fitting safety goggles
Hand protection:	In case of full contact: Nitrile rubber
Material:	Protective gloves complying with EN 374.
Break through time:	> 480 min
Glove thickness:	0.1mm
Protective index:	Class 6
<u>In case of contact through splashing: Nitrile rubber</u>	
Material:	Protective gloves complying with EN 374
Break through time:	8 min
Glove thickness:	0.1mm
Protective index:	Class 6
	Peha-soft nitrile fino
Skin and body protection:	Lightweight protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Colourless
Odour:	Alcohol-like
pH	13-14, (20°C)
Melting point/range:	Not determined.
Boiling point/range:	96°C
Flash point:	32°C. DIN 51755 Part 1
Flammability (solid, gas):	Not auto-flammable
Vapour pressure:	No data available
Density:	Not determined.
Water solubility:	Completely miscible.
Other information:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed
Chemical stability:	The product is chemically stable
Hazardous reactions:	Exothermic reaction with strong acids
Conditions to avoid:	Heat, strong sunlight for prolonged periods
Materials to avoid:	Acids
Hazardous decomposition products:	No data available

11. TOXICOLOGY INFORMATION

Product

Acute toxicity:

Acute oral toxicity: Acute toxicity estimate :> 2.000 mg/kg
Method: Calculation method

Skin corrosion/irritation:

Result: Corrosive

Serious eye damage/eye irritation:

Result: Corrosive

Respiratory or skin sensitisation:

Result: Does not cause respiratory sensitisation

Result: Does not cause skin sensitisation

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

Reproductive toxicity:

No data available

STOT – repeated exposure:

No data available

STOT – repeated exposure:

No data available

Aspiration toxicity:

No data available

Components

Acute toxicity:

Propan-1-ol (CAS: 71-23-8):

Acute oral toxicity: LD50 Oral rat: 8.000 mg/kg

Acute inhalation toxicity: LC50 rat: > 33.8 mg/l

Exposure time: 4h

Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 Dermal rabbit: 4.032 mg/kg

Method: Calculation method

Propan-2-ol (CAS: 67-63-0):

Acute oral toxicity: LD50 Oral rat: > 2.000 mg/kg

Acute inhalation toxicity: LC50 rat: > 20 mg/l

Exposure time: 8h

Acute dermal toxicity: LD50 Dermal rabbit: > 2.000 mg/kg

Skin corrosion/irritation

Propan-1-ol (CAS: 71-23-8):

Species: rabbit

Result: No skin irritation

Propan-1-ol (CAS: 71-23-8):

Species: rabbit

Result: No skin irritation

Propan-2-ol (CAS: 67-63-0):

Species: rabbit

Result: No skin irritation

Potassium hydroxide (CAS: 1310-58-3):

Species: rabbit

Exposure time: 24 h

Result: Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Propan-1-ol (CAS: 71-23-8):

Species: rabbit

Result: Irreversible effects on the eye

Propan-2-ol (CAS: 67-63-0):

Species: rabbit

Result: Eye irritation

Potassium hydroxide (CAS: 1310-58-3):

Species: rabbit

Exposure time: 24 h

Result: Eye irritation

Respiratory or skin sensitisation

Propan-1-ol (CAS: 71-23-8):

Test Method: Maximisation Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Propan-2-ol (CAS: 67-63-0):

Test Method: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Germ cell mutagenicity

Propan-1-ol (CAS: 71-23-8):

Genotoxicity in vitro: Type: in vitro assay

Result: negative

Propan-2-ol (CAS: 67-63-0):

Genotoxicity in vitro: Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Aspiration toxicity

Potassium hydroxide:

Corrosive to the respiratory tract

12. ECOLOGICAL INFORMATION**Toxicity****Components:****Propan-1-ol (CAS:71-23-8):**

Toxicity to fish:	LC50 (pimephales promelas (fathead minnow)): 4.555 mg/l Exposure time: 96h Test method: flow-through test
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 3.644 mg/l Exposure time: 48h Method: DIN 38412
Toxicity to algae:	NOEC (Chlorella vulgaris (Fresh water algae)): 1.150 mg/l Exposure time: 48 h
Toxicity to bacteria:	IC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Propan-2-ol (CAS: 67-63-0):

Toxicity to fish:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h

Potassium hydroxide (CAS: 1310-58-3):

Toxicity to fish:	LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l Exposure time: 96 h
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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment**Product:**

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product:

Dispose of as hazardous waste in compliance with local and national regulations.

The product should not be allowed to enter drains, water courses or the soil.

The following Waste Codes are only suggestions:

Waste Code EU 070601* aqueous washing liquids and mother liquors

Contaminated packaging:

Empty remaining contents.

Clean container with water.

Offer rinsed packaging material to local recycling facilities

14. TRANSPORT INFORMATION

UN number

ADR	UN 2924
IMDG	UN 2924
IATA	UN2924

UN proper shipping name

ADT	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (n-propanol, potassium hydroxide)
IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (n-propanol, potassium hydroxide)
IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (n-propanol, potassium hydroxide)

Transport hazard class

ADR	3 (8)
IMDG	3 (8)
IATA	3 (8)

Packaging group

ADR

Packaging group:	III
Classification Code:	FC
Hazard Identification	
Number:	38
Labels:	3 (8)
Tunnel restriction code:	D/E

IMDG

Packaging group:	III
Labels:	3 (8)
EmS Number:	F-E, S-C

IATA

Packaging group:	III
Labels:	3 (8)

Environmental hazards

ADR

Environmentally hazardous: no

IMDG

Marine pollutant: no

IATA

Environmentally hazardous: no

Special precautions for user: not applicable

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

Not applicable

15. REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident haz-ards involving dangerous substances

	Quantity1	Quantity2		
6		Flammable.	5.000 t	50.000 t

The components of this product are reported in the following inventories:

- REACH: Not in compliance with the inventory
- CH INV: The formulation contains substances listed on the Swiss Inventory
- TSCA: Not On TSCA Inventory
- DSL: This product contains the following components that are not on the Canadian DSL nor NDSL.
- AICS: Not in compliance with the inventory
- NZIoC: On the inventory, or in compliance with the inventory
- ENCS: Not in compliance with the inventory
- ISHL: Not in compliance with the inventory
- KECI: Not in compliance with the inventory
- PICCS: On the inventory, or in compliance with the inventory
- IECSC: On the inventory, or in compliance with the inventory

For explanation of abbreviations see section 16.

Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

16. FURTHER INFORMATION

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

Notification status

REACH:	Registration, Evaluation and Authorisation of Chemicals (REACH)
CH INV:	Switzerland. New notified substances and declared preparations
TSCA:	Toxic substances control act
DSL:	Canada. DSL - Domestic Substances List, part of CEPA
AICS:	Australia. AICS - Australian Inventory of Chemical Substances
NZIoC:	New Zealand Inventory of Chemical Substances
ENCS:	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL:	Japan. Industrial Safety and Health Law - Inventory
KECI:	Korea. KECI - Korean Existing Chemicals Inventory
PICCS:	Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances.
IECSC:	China. IECSC – Inventory of Existing Chemical Substances in China

Safety data sheet sections which have been updated:

Hazards identification

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.