



SAFETY DATA SHEET

KaVo. Dental Excellence.

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

Product identifier

Trade name or designation of the mixture KaVo Oxygenal 6

REACH Registration Number -

Product code 0,489,3451

Date of first issue 24-April-2012

Version number 1.0

Product use professional use

Revision date 24-April-2012

Supersedes date

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

Identified uses Not available.

Uses advised against None known.

Details of the supplier of the safety data sheet

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Section 2: Hazards identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xi;R36

The full text for all R-phrases is displayed in section 16.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Irritating to eyes.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Not available.

Main symptoms Irritant effects.

Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended



Irritant

R-phrases R36 Irritating to eyes.

S-phrases S3 Keep in a cool place.
 S23 Do not breathe gas/fumes/vapour/spray.
 S25 Avoid contact with eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S60 This material and its container must be disposed of as hazardous waste.

Supplemental label information Not applicable.
Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Hydrogen peroxide	< 8	7722-84-1 231-765-0	-	008-003-00-9	
Classification: O;R8, R5, C;R35, Xn;R20/22					

PBT: persistent, bioaccumulative and toxic substance.
 vPvB: very persistent and very bioaccumulative substance.
 #: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R-phrases is displayed in Section 16.

Section 4: First aid measures

General information Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Call a physician immediately.

Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Skin contact Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention immediately. Wash clothing separately before reuse.

Eye contact Flush eyes immediately with large amounts of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed Irritating to eyes.

Indication of any immediate medical attention and special treatment needed In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Section 5: Firefighting measures

General fire hazards Not available.

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet.

Special hazards arising from the substance or mixture Not available.

Advice for firefighters

Special protective equipment for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Special firefighting procedures Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid skin contact and inhalation of vapours during disposal of spills. Ventilate closed spaces before entering them.

For emergency responders Any action only if without personal risk. Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

Environmental precautions Avoid release to the environment. Do not contaminate water.

Methods and material for containment and cleaning up Remove sources of ignition. Stop the flow of material, if this is without risk. Should not be released into the environment.

Large Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Following product recovery, flush area with water.

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13.

Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling Eliminate all sources of ignition. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep away from heat and flame. Keep container tightly closed in a cool, well-ventilated place. Store in a cool, dry place. Use appropriate container to avoid environmental contamination. Keep separated from foodstuff, acids and bases. Store in accordance with local/regional/national/international regulation.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Hydrogen peroxide (7722-84-1)	STEL	2.8 mg/m ³
	TWA	2 ppm
		1.4 mg/m ³
		1 ppm

EU

No exposure limits noted for the ingredient(s).

Biological limit values

EU

No biological exposure limits noted for the ingredient(s).

United Kingdom

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

DNEL Not available.

PNEC Not available.

Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Keep working clothes separately.

Eye/face protection Wear goggles/face shield. (DIN EN 166)

Skin protection

- Hand protection Use protective gloves made of: Nitrile rubber. (DIN EN 374)

- Other	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. Wash hands after handling.
Environmental exposure controls	Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	Colourless.
Odour	Characteristic.
Odour threshold	Not available.
pH	5
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	100 °C (212 °F)
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidizing properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	23 mbar
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Density	1.03 g/cm ³ (DIN 51757) @ 20°C
Solubility (water)	soluble
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Bulk density	Not applicable.
Pour point	Not applicable.
Viscosity	Not available.
Viscosity temperature	Not available.
VOC (Weight %)	Not available.
Percent volatile	Not available.
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	Avoid contact with strong reducing agents.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid heat.
Incompatible materials	Bases. Acids. Do not mix with other chemicals.

Hazardous decomposition products Oxygen.

Section 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Not available.

Inhalation Not available.

Skin contact Not available.

Eye contact Irritating to eyes.

Symptoms Irritant effects.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Irritating.

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Mixture versus substance information Not available.

Other information Not available.

Section 12: Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Mobility Not available.

Environmental fate - Partition coefficient Not available.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not available.

Other adverse effects Not available.

Section 13: Disposal considerations

Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Section 14: Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

Section 15: Regulatory information

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

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Wording of the R-phrases in sections 2 and 3

R5 Heating may cause an explosion.
R8 Contact with combustible material may cause fire.
R20/22 Harmful by inhalation and if swallowed.
R35 Causes severe burns.
R36 Irritating to eyes.

Revision information

Product and company identification: Product and company identification
Composition/Information on Ingredients: Disclosure Overrides
Physical & Chemical Properties: Multiple Properties
Regulatory information: Safety phrases

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

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