



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 Edelstahlreiniger
Registration number -
Product registration number Not available.
Product use professional use
Product code 0,411,9060
Date of first issue 01-December-2011
Version number 1.0
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Supersedes date

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

Identified uses cleaning agents
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;R41

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

Hazard summary

Physical hazards Not classified for physical hazards.
Health hazards Risk of serious damage to eyes.
Environmental hazards Not classified for hazards to the environment.
Specific hazards Risk of serious damage to eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
Main symptoms Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

Label elements

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



Irritant

R-phrases R41 Risk of serious damage to eyes.

S-phrases

S23 Do not breathe gas/fumes/vapour/spray.
 S25 Avoid contact with eyes.
 S39 Wear eye/face protection.
 S60 This material and its container must be disposed of as hazardous waste.

Section 3: Composition/information on ingredients**Mixture****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aluminiumoxid	>10	1344-28-1 215-691-6	-	-	#
Classification:	-				
Naphtha (petroleum), Hydrotreated Heavy (< 0.1% Benzene)	>10	64742-48-9 265-150-3	-	649-327-00-6	
Classification:	Xn;R65, R66				
Alcohols, C16-18, Ethoxylated (>5-15 EO)	1 - 10	68439-49-6 500-212-8	-	-	
Classification:	Xn;R22, Xi;R41, N;R50				

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

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

Section 4: First aid measures**General information**

If you feel unwell, seek medical advice (show the label where possible). In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Description of first aid measures

Inhalation Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

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

Ingestion If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly. Do not induce vomiting without medical advice. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Skin irritation. Irritating to mouth, throat, and stomach.

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**Extinguishing media**

Suitable extinguishing media Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

Unsuitable extinguishing media Do not use water jet.

Special hazards arising from the substance or mixture

By heating and fire, irritating vapours/gases may be formed.

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 Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. Water runoff can cause environmental damage.

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. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Avoid inhalation of vapours and spray mists.
- For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up Extinguish all flames in the vicinity.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

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 May be ignited by open flame. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Heating will generate vapours which may form explosive vapour/air mixtures.

Conditions for safe storage, including any incompatibilities Do not handle or store near an open flame, heat or other sources of ignition. Refrigeration recommended. Store in a well-ventilated place. Use appropriate container to avoid environmental contamination. Take measures to prevent the build up of electrostatic charge. Store in accordance with local/regional/national/international regulation.

Section 8: Exposure controls/personal protection

Control parameters

Exposure limit values

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Aluminiumoxid (1344-28-1)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

Biological limit values 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. Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

General information Not available.

Eye/face protection Wear chemical goggles.

Skin protection

- **Hand protection** Wear protective gloves. Chloroprene rubber. Polyvinyl chloride (PVC). Butyl rubber.

- **Other** Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not available.

Hygiene measures	When using, do not eat, drink or smoke. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices.
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	White or Colourless.
Odour	Mild. Characteristic.
Odour threshold	Not available.
pH	9 - 10 @ 20°C (100g/l H2O)
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	> 100 °C (> 212 °F)
Flash point	> 60 °C (> 140 °F)
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	20 hPa @ 20°C
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	1 g/cm ³ @ 20°C (DIN 51757)
Solubility (water)	emulsifiable
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	@ 20°C paste
Percent volatile	Not available.
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx).

Section 11: Toxicological information

Information on likely routes of exposure

Ingestion	Not available.
Inhalation	Not available.
Skin contact	May cause irritation.
Eye contact	Risk of serious damage to eyes.
Symptoms	Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

Information on toxicological effects

Components**Test results**

Aluminiumoxid (1344-28-1)

Acute Dermal LD50 \geq 5000 mg/kg
 Acute Inhalation LD50 \geq 1000 mg/kg 4 hours
 Acute Oral LD50 \geq 5000 mg/kg

Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Respiratory sensitisation	Not available.
Skin sensitisation	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.

Toxicity**Components****Test results**

Aluminiumoxid (1344-28-1)

NOEC Algae: \geq 100 mg/l 72 hours
 NOEC Daphnia: \geq 100 mg/l 48 hours
 NOEC Trout family (Salmonidae): \geq 100 mg/l 96 hours

Persistence and degradability	Not available.
Bioaccumulative potential	Not known.
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. Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant authorised under the Environmental Protection Act 1990. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.

Section 14: Transport information**ADR**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

Revision information

Not available.

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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