

SAFETY DATA SHEET

Machine cleaner for dishwashers

Material number 00312477/00312628/00312625/00312193



Version: 3.5
Replaces version: 3.4

Revision date: 18.5.2026
Date of print: 19.5.2026

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: Machine cleaner for dishwashers

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

General use: Cleaning agent

Details of the supplier of the safety data sheet

Company name: ORO-Produkte Marketing International GmbH
Street/POB-No.: Im Hengstfeld 47
Postcode, city: 32657 Lemgo
Germany
WWW: www.oro-marketing.de
Email: info@oro-marketing.de
Telephone: +49 (0)5261 28893-0
Telefax: +49 (0)5261 28893-48

Department responsible for information:
Quality management: +49 (0)5261 28893-0

Additional information: Distributor
BSH Hausgeräte Service GmbH
Werkskundendienst für Hausgeräte
Leopoldstrasse 252
D-80807 München
E-mail: spareparts@bshg.com
Telephone: 089 20 355 777

Emergency telephone number

Tel. +49 (0)5261 28893-0 (Weekdays, regular working hours)

2. Hazards identification

Classification of the substance or mixture

GHS classification

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Label elements



Signal word: **Danger**

Hazard statements: Causes skin irritation.
Causes serious eye damage.

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Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

Wear protective gloves/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap.

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/doctor.

Other hazards

May form explosible dust-air mixture if dispersed.

3. Composition/information on ingredients

Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 497-19-8	Sodium carbonate	50 - 60 %	Eye Irrit. 2A.
CAS 1344-09-8	Silicic acid, sodium salt	10 - 20 %	Skin Irrit. 2. Eye Irrit. 2A. STOT SE 3.
CAS 15630-89-4	Sodium percarbonate	10 - 15 %	Ox. Sol. 3. Acute Tox. 4 (oral). Eye Dam. 1.

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:

Contains:

- 5% or over but less than 15%: oxygen-based bleaching agents
- less than 5%: non-ionic surfactants, polycarboxylates
- Perfumes, enzymes (amylase, protease)

4. First aid measures

General information: If medical advice is needed, have product container or label at hand.
Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, provide oxygen as needed. Put victim at rest and keep warm.
Seek medical attention if problems persist.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek the attention of an ophthalmologist immediately.

After swallowing: Seek medical attention. Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting without medical assistance.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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5. Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

May form explosible dust-air mixture if dispersed.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to suppress vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Avoid dust formation. Do not breathe dust. Provide adequate ventilation. Wear protective equipment. Keep unprotected people away.

Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

Additional information:

May form explosible dust-air mixture if dispersed.

With water: Special danger of slipping by leaking/spilling product.

7. Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Avoid dust formation. Do not breathe dust. When using do not eat, drink or smoke. Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place. Wear appropriate protective equipment. Keep unprotected people away.

Precautions against fire and explosion:

Usual measures for fire prevention.

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Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Keep only in the original container.
Store at room temperature.

Hints on joint storage:

Keep away from strong acids.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)

Exposure controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Particulates filter P2 according to EN 143. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN ISO 374-1
Glove material: polychloroprene, Rubber or neoprene gloves
Layer thickness: >0,5 mm
Breakthrough time: 60 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Avoid dust formation. Do not breathe dust. Have eye wash bottle or eye rinse ready at work place. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: Powder Colour: white
Odour:	perfumed
Odour threshold:	No data available
pH:	at 20 °C, 10%: 11,3
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available

Additional information

Viscosity:	No data available
Bulk density:	at 20 °C: 870,0 kg/m ³

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Exothermic reactions with strong acids.
Conditions to avoid:	Excessive heating. Protect from moisture contamination.
Incompatible materials:	Strong acids
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available

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11. Toxicological information

Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): ATE > 5000 mg/kg.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about Sodium carbonate:

Acute oral toxicity: LD50, Rat: 2.800 mg/kg

Acute inhalation toxicity: LC50, Rat: 2,3 mg/L/2h (OECD 403)

Acute dermal toxicity: LD50, Rabbit: > 2000 mg/kg

Information about Silicic acid, sodium salt:

Acute oral toxicity: LD50, Rat: > 2.000 mg/kg

Acute inhalation toxicity: LC50, Rat: > 2.060 mg/m³/4h

Acute dermal toxicity: LD50, Rat: > 5000 mg/kg

Information about sodium percarbonate:

Acute oral toxicity: LD50, Rat: 1.034 mg/kg

Acute inhalation toxicity: LC50, Rat: >4,58 mg/L/1h

Acute dermal toxicity: LD50, Rabbit: > 2.000 mg/kg (OECD 402)

Symptoms

After eye contact: In case of dust formation: irritation to respiratory tract

12. Ecological information

Toxicity

Further details: No data available

Persistence and degradability

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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Mobility in soil

No data available

Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Do not dispose of with household waste. Dispose of waste according to applicable legislation.

Package

Recommendation: Empty carefully and completely, if possible. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

Land transport (ADR/RID)

Product designation: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

International Conventions

No data available

Further regulations, limitations and legal requirements

No data available

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16. Other information

Text for labelling: Contains: sodium percarbonate

Labelling for contents according to regulation (EC) No 648/2004, annex VII:

Contains:

- 5% or over but less than 15%: oxygen-based bleaching agents
- less than 5%: non-ionic surfactants, polycarboxylates
- Perfumes, enzymes (amylase, protease)

Classification procedure: Physical hazards: on basis of test data

Health hazards, environmental hazards: calculation method

Abbreviations and acronyms:

Acute Tox.: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
Ox. Sol.: Oxidising solids
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: Material number

Date of first version: 2.4.2020

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
<https://sumdat.net/e54zh6zd>

