

SAFETY DATA SHEET

Dishwasher care

Material number 00311993, 00311995, 00311996, 00311998

Revision date: 3/26/2019

Version: 2

Language: en-UN

Date of print: 3/29/2019

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

Product identifier

Trade name: Dishwasher care

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: PMS Thomin GmbH

Street/POB-No.: Meckesheimer Straße 7/1

Postal Code, city: 74939 Zuzenhausen

Germany

WWW: www.pms-serviceprodukte.de

E-mail: info@pms-serviceprodukte.de

Telephone: +49(0)6226-7893300

Dept. responsible for information:

Telephone: +49(0)6226-7893366

E-mail: info@pms-serviceprodukte.de

Website: www.pms-serviceprodukte.de

Emergency telephone number

Telephone: +49(0)160-92250872 (24h)

E-mail: auskunft24@t-online.de

2. Hazards identification

Classification of the substance or mixture

GHS classification

Eye Irritation 2A Causes serious eye irritation.

Label elements



Signal word: **Warning**

Hazard statements: Causes serious eye irritation.

Precautionary statements:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Wear eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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Other hazards

Special danger of slipping by leaking/spilling product. A corrosive effect cannot be ruled out because of the pH value.

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 77-92-9 | Citric acid, anhydrous | 5 - 15 % | Eye Irritation 2A. |
| CAS 67-63-0 | Isopropyl alcohol | < 5 % | Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3. |
| CAS 15763-76-5 | Sodium p-cumenesulphonate | < 5 % | Eye Irritation 2A. |
| CAS 164524-02-1 | Potassium cumenesulphonate | < 5 % | Eye Irritation 2A. |

Additional information: Contains:
- 5% or over but less than 15% nonionic surfactant
- Perfumes

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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, 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. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

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, alcohol resistant foam, carbon dioxide.
Extinguishing is to be in accordance with the surrounding fire.

Extinguishing media which must not be used for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: nitrogen oxides (NO_x), sulphur oxides, metal oxide smoke, 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:

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapors. Avoid contact with the substance.
If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Take off contaminated clothing and wash it before reuse.

Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
If necessary notify appropriate authorities.

Methods and material for containment and cleaning up

Additional information:

Absorb spillage to prevent material damage.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
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. Do not breathe vapors. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place.

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Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Store containers in upright position. Protect from: UV-radiation/sunlight.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|---------|-------------------|-------------------------------------|--|
| 67-63-0 | Isopropyl alcohol | USA: ACGIH: STEL USA: ACGIH: TWA | 984 mg/m ³ ; 400 ppm 492 mg/m ³ ; 200 ppm |

Biological limit values:

| CAS No. | Designation | Type | Limit value | Parameter | Sampling |
|---------|-------------------|--------------------------|-------------|------------------|---------------------------------|
| 67-63-0 | Isopropyl alcohol | USA: ACGIH-BEI, urine | 40 mg/L | Acetone in urine | end of shift at end of workweek |

Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

Respiratory protection: When vapors form, use respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection. 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 OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber

Layer thickness: 0.35 mm

Breakthrough time: > 480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapors. Do not get in eyes, on skin, or on clothing.

Take off contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

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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: liquid Color: blue |
| Odour: | alcoholic |
| Odour threshold: | No data available |
| pH value: | at 20 °C: approx. 2 |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | approx. 100 °C |
| Flash point/flash point range: | No data available |
| 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: | at 20 °C: 1.07 g/mL |
| Water solubility: | completely miscible |
| Partition coefficient: n-octanol/water: | 0.05 log P(o/w) (Isopropyl alcohol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. -1.57 log P(o/w) (Citric acid) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. |
| Auto-ignition temperature: | No data available |
| Thermal decomposition: | No data available |

Additional information

| | |
|-------------------------|-------------------|
| Viscosity | - |
| Additional information: | No data available |

10. Stability and reactivity

| | |
|-------------------------------------|---|
| Reactivity: | Refer to subsection "Possibility of hazardous reactions". |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | No hazardous reaction when handled and stored according to provisions. |
| Conditions to avoid: | Keep away from heat sources, sparks and open flames. Protect from: UV-radiation/sunlight. Protect from frost. |
| Incompatible materials: | No data available |
| 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: | <p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Based on available data, the classification criteria are not met.</p> <p>Serious eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Based on available data, the classification criteria are not met.</p> <p>Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Effects on or via lactation: Based on available data, the classification criteria are not met.</p> <p>Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.</p> <p>Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p> |
| Other information: | <p>Information about Citric acid:</p> <p>LD50 Rat, oral: 5400 mg/kg</p> <p>Information about Isopropyl alcohol:</p> <p>LD50 Rat, oral: 4570 mg/kg</p> <p>LD50 Rabbit, dermal: > 2000 - 13400 mg/kg</p> <p>LC50, Rat, inhalative: 30 mg/L/4h</p> |

Symptoms

After contact with skin: A corrosive effect cannot be ruled out because of the pH value.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Toxicity

| | |
|-------------------|--|
| Aquatic toxicity: | <p>Harmful effects by modification of pH-value.</p> <p>Information about Citric acid:</p> <p>Daphnia toxicity:</p> <p>EC50: 160 mg/L/48h</p> <p>Information about Isopropyl alcohol:</p> <p>Daphnia toxicity:</p> <p>EC50 Daphnia magna (Big water flea): > 100 mg/L/48h</p> <p>Fish toxicity:</p> <p>LC50 Leuciscus idus: > 100 mg/L/96h</p> <p>Algae toxicity:</p> <p>ErC50 Scenedesmus quadricauda: > 100 mg/L/72h</p> |
|-------------------|--|

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Persistence and degradability

Further details: No data available

Mobility in soil

No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

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

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

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

Further regulations, limitations and legal requirements

No data available

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16. Other information

Reason of change: Changes in section 8: limit value

General revision

Date of first version: 8/23/2018

Department issuing data sheet

Contact person: see section 1: Dept. 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.