

1. Product and company identification

Product identifier

Trade name: WMF Special-Cleaning Tablets 3,6g

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: IBEDA-CHEMIE Klaus P. Christ GmbH

Street/POB-No.: Am Eichelgärtchen 32

Postal Code, city: 56283 Halsenbach

Germany

E-mail: info@ibeda-chemie.com

Telephone: +49 (0)6747-9501-0

Telefax: +49 (0)6747-9501-11

Department responsible for information:

Herr Christ, Telephone: +49 (0)6747-95010 (Only available during office hours.)

Emergency phone number

**GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240**

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Form: Tablets

Color: white

Odor: odorless

Classification: Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1.

Hazard symbols:



Signal word:

Danger

Hazard statements:

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

Precautionary statements:

Keep out of reach of children.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/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.

Immediately call a POISON CENTER/doctor.

Rinse mouth.

Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

Contains phosphonates. May contribute to the eutrophication of water supplies.
Contains Sodium percarbonate: May intensify fire; oxidiser.
Contact with water may cause slipping.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Mixture of inorganic salts with organic materials

Relevant ingredients:

| CAS No. | Designation | Concentration | Classification |
|----------------|--|---------------|---|
| CAS 497-19-8 | Sodium carbonate | 25 - 50 % | Eye Irritation - Category 2A. |
| CAS 15630-89-4 | Sodium percarbonate | 10 - 20 % | Oxidizing Solid - Category 3. Acute Toxicity - oral - Category 4. Eye Damage - Category 1. |
| CAS 3794-83-0 | Tetrasodium (1-hydroxyethylidene) bisphosphonate | 10 % | Acute Toxicity - oral - Category 4. Eye Irritation - Category 2A. |
| CAS 77-92-9 | Citric acid, anhydrous | 5 - 10 % | Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. |
| CAS 70693-62-8 | Potassium peroxymonosulfate | < 5 % | Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Aquatic toxicity - chronic - Category 3. |

Additional information: Contains polyethylene glycol, Sodium sulfate anhydrous: The maximum workplace exposure limits are, where necessary, listed in section 8.

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. Seek the attention of an ophthalmologist immediately.

After swallowing: Rinse mouth and drink large quantities of water. Never give anything by mouth to an unconscious person.
Seek medical attention.

Most important symptoms/effects, acute and delayed

Harmful if swallowed. Causes serious eye damage. Causes skin irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: Not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors.
In case of fire may be liberated: Sodium compounds, sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

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

Additional information:

Fire water reacts alkaline. Do not allow fire water to penetrate into surface or ground water.
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:

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

Environmental precautions:

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

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal.
Wash spill area with plenty of water.

Additional information:

Contact with water may cause slipping.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin and eyes.
Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
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. In case of dust formation: Withdraw by suction. Do not breathe dust.

Specific use(s)

Cleaning agent

Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry.

Hints on joint storage:

Do not store together with highly inflammable or combustible materials.
Keep away from bases, acids

8. Exposure controls / personal protection

Exposure guidelines

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) |
| USA: OSHA: TWA | 15 mg/m ³ (Dust limit value, inhalable fraction) |
| USA: OSHA: TWA | 5 mg/m ³ (Dust limit value, respirable fraction) |

Engineering controls

Provide adequate ventilation. Vent dust from the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

Skin protection: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber or butyl caoutchouc (butyl rubber).
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

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

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: solid
Form: Tablets
Color: white

Odor: odorless

Odor threshold: No data available

pH: at 10%: 10.5

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

Vapor pressure: No data available

Vapor density: No data available

Density: approx. 2 g/cm³

Water solubility: soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Additional information: No data available

10. Stability and reactivity

Reactivity: Product is hygroscopic. Product reacts alkaline.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions.

| | |
|-----------------------------------|--------------------------------------|
| Conditions to avoid: | No data available |
| Incompatible materials: | Acids, alkalis |
| Hazardous decomposition products: | No decomposition when used properly. |
| Thermal decomposition: | No data available |

11. Toxicological information

Toxicological tests

| | |
|------------------------|--|
| 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): Acute Toxicity - oral - Category 4 = Harmful if swallowed.</p> <p>Acute toxicity (dermal): Lack of data.</p> <p>Acute toxicity (inhalative): Lack of data.</p> <p>Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Lack of data.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Lack of data.</p> <p>Specific target organ toxicity (repeated exposure): Lack of data.</p> <p>Aspiration hazard: Lack of data.</p> |
| Other information: | <p>Information about Sodium percarbonate: LD50 Rat, oral: 1,034 mg/kg.</p> <p>Information about Tetrasodium ethylenediaminetetraacetate: LD50 Rat, oral: 1,100 mg/kg.</p> <p>Information about Potassium peroxymonosulfate: LD50 Rat, oral: 500 mg/kg.</p> |

Symptoms

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
In case of inhalation: May cause irritations.
After eye contact:
Upon direct contact with eyes may cause burning, tearing, redness. corneal opacity.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.
Contains phosphonates. May contribute to the eutrophication of water supplies.

Information about Potassium peroxymonosulfate:
Bacterial toxicity:
EC50 *Pseudomonas putida*: 179 mg/L/18h.
Daphnia toxicity:
NOEC *Daphnia magna*: 1,8 mg/L/24h (OECD 202).
LC50 *Daphnia magna*: 5,3 mg/L/24h (OECD 202).
Fish toxicity:
NOEC *Danio rerio* (zebrafish): 32 mg/L/96h (OECD 203).
Source: IUCLID.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

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

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.
Smaller amounts: Dilute with plenty of water.

14. Transport information

UN number

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

UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

Transport hazard class(es)

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

Packing group

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

Environmental hazards

Marine pollutant: no

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

No data available

USA: Department of Transportation (DOT)

Proper shipping name: 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**National regulations - U.S. Federal Regulations**

| | |
|--|---|
| Sodium carbonate: | TSCA Inventory: listed TSCA HPVC: not listed |
| Sodium percarbonate: | TSCA Inventory: listed TSCA HPVC: not listed |
| Polyethylene glycol: | TSCA Inventory: listed; EPA flags XU TSCA HPVC: not listed |
| Tetrasodium (1-hydroxyethylidene)bisphosphonate: | TSCA Inventory: listed TSCA HPVC: not listed |
| Citric acid, anhydrous: | TSCA Inventory: listed TSCA HPVC: not listed |
| Potassium peroxymonosulfate: | TSCA Inventory: listed TSCA HPVC: not listed |

National regulations - U.S. State Regulations

California Proposition 65 Status: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 25 - 50 % Sodium carbonate, 10 - 20 % Sodium percarbonate, 10 % Tetrasodium (1-hydroxyethylidene)bisphosphonate, 5 - 10 % Citric acid, anhydrous, < 5 % Potassium peroxymonosulfate. Safety data sheet available on request.

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

Contains

- 5% or over but less than 15% phosphonates
- 15% or over but less than 30% oxygen-based bleaching agents

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)
Fire: 0 (Minimal)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)
Flammability: 0 (Minimal)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

JT Baker Storage Color Code: Green (General Storage)

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| | X |

Abbreviations and acronyms:

- Acute Toxicity: 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
- Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- Corrosive to Metals: Corrosive to metals
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EC50: Effective Concentration 50%
- EN: European Standard
- EQ: Excepted quantities
- Eye Damage: Eye damage
- Eye Irritation: 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
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- NOEC: No Observed Effect Concentration
- OEL: Occupational Exposure Limit Value
- OSHA: Occupational Safety and Health Administration
- Oxidizing Solid: Oxidising solids
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- Skin Corrosion: Skin corrosion
- Skin Irritation: 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 8: Exposure limit values

Date of first version: 10/2/2009

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
<http://sumdat.net/p8x32d9f>

