

Material Safety Data Sheet

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according to regulation EC 453/2010

Print date: 26.03.14

Revision date: 26.03.14

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

Product Identifier (trade name): WMF Liquid descaling agent

Relevant identified uses of mixture: Liquid descaling agent for coffee machines.

Details of the supplier of the MSDS: Emil Bihler Chemische Fabrik GmbH+Co.KG
Heidenheimer Str. 52
D-73312 Geislingen (Steige)
Phone: +49 (0)7331 30490-0 Fax: -99 e-mail: info@emil-bihler.de

Emergency telephone number: +49(0)30 19240 (Medical toxicology unit Berlin)
+49(0)171 2840295; Contact: Stephan Bihler
(Languages: german and english)

2. Hazards identification

Classification of mixture according to regulation EC 1272/2008:

Hazard classes	Hazard categories	Hazard statements
Serious eye irritation.	2	H319
Skin irritation.	2	H315

Label elements:
Hazard pictograms



Signal word: **ATTENTION**

Hazard statements: H315 Causes skin irritation
H319 Causes serious eye irritation.

Precautionary statements: P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards:
May cause irritation in eyes and on mucous membrane. Not appropriately with designated use.
Keep locked up and out of reach of children.

3. Composition/information on ingredients

Description of the mixture:
Aqueous cleaner consisting of anorganic acids with agents for metal protection.

Hazardous ingredients:

CAS-No	Substance name	%	Classification according CLP
5329-14-6	Sulfamic acid	5-15	cat. 2: H315, 319; cat. 3: H412
13598-36-2	Phosphonic acid	<1	cat. 1: H318

4. First aid measures

General informations: No special first help measures necessarily.

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After inhalation: none
After skin contact: Wash off with plenty of water.
After eye contact: Rinse immediately with plenty of water. If necessary consult a physician.
After swallowing: Rinse mouth with water and drink plenty of it. Consult a physician and show label or this paper. Do not supply vomiting.

The most important acute and delayed appearing symptoms and effects: No information available.
Indication of any immediate medical attention and special treatment needed No information available.

5. Fire-fighting measures

Extinguishing media: Harmonize to environs.
Unsuitable extinguishing media: Harmonize to environs.
Special hazards arising from the substance or mixture: none
Advice for fire-fighters: none

6. Accidental release measures

Personal precautions: Eye protection
Environmental precautions: Pay attention to waste legislation. Do not leave into surface or ground water.
Means for removal: Soak up with water.

7. Handling and storage**Handling**

Handling precautions: Wash after handling, especially before eating, drinking and smoking. Avoid eye contact. Keep away from children.

Protection against fire and explosion: No special measures necessarily.

Storage

Technical protective measures: Keep containers firmly locked.

Industrial hygiene: There are no restrictions in the locked original bundle. Keep away otherwise from foods, drinks and animal food.

Storage classification-Germany: 3A (VCI)

Fire classification-Germany: not applicable

8. Exposure controls / Personal protection

Control parameters: none

CAS-No	Substance name	%	Type	Value	Unity

Exposure limitation and controls

Working hygiene: Take care like handling other chemicals.

Respiratory protection: none
Skin protection: none
Eye protection: recommended

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9. Physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: without any smell

Change: **melting point** 0 °C DIN 51583
boiling temperature appr. 100 °C DIN 51751

pH value: at 20°C (1%) 1,15-1,20 electrometer

Flash point: n.a. °C
Ignition temperature: n.a.
Spontaneous ignition: none
Explosion hazard: none

Vapour pressure: at 20°C no data mbar
Density: at 20°C 1,085-1,095 g/cm³
Index of refraction: at 20°C 1,35
Solubility in water complete
organic solvents <0,1 %

Viscosity: at 20°C 30 mm²/s DIN 53211

Contents of solvents: organic <0,1 %
water appr. 85 %

Contents of solids: at 20°C appr. 15 %

10. Stability and reactivity

Reactivity and chemical stability: stable

Conditions to avoid: Do not mix with other cleaners or chemicals.

Hazardous decomposition products: none

11. Toxicological information

Akute toxicity: LD50-Value: >200 mg/kg (rat)
Primary irritation effect on skin: not irritant
Primary irritation effect after eye contact: slightly irritant

Allergic effects: None information known.
Further toxicological informations: None information known about causing cancer and influences on inheritance.

12. Ecological information

Toxicity: With appropriate use no fish-toxic effects are to be expected.

Persistence and degradability: Product is well biodegradable (according to the legal regulations)

Bioaccumulative potential/Mobility in soil: With the transport of small quantities in the drains no danger exists.
Do not allow to get directly to soil and waters.

Ergebnisse der PBT- und vPvB-Beurteilung: -

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13. Disposal considerations**Product**

Only dispose into drains according to the legal regulations.
 Disposal key-Germany: 070699

Packagingdisposal

Only dispose clean containers. Cleaner: Water

14. Transport information**Land transport (ADR/RID and GGVS/GGVE)**

Class / Kemler / UN / Packing group / Label / LQ: 8 / 80 / 3264 / III / 8 / E1

Sea transport (IMDG/GGVSee)

Class / UN / Packing group / Label / EMS / LQ 8 / 3264 / III / 8 / F-A, S-B / E1
 Marine pollutant: no

Air transport (ICAO/IATA)

Class / UN / Packing group / Label / LQ: 8 / 3264 / III / 8 / E1

Proper shipping name:

CORROSIVE LIQUID; ACIDIC; INORGANIC; N.O.S
 (SULPHAMIC ACID)

No transport in bulk according the IBC-Code.

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the mixture**National regulations: (Germany):

Wassergefährdungsklasse: 1 (schwach wassergefährdend, Selbsteinstufung)
 TA Luft: n.a.
 VOC: 0%

Chemical Safety Assessment

Currently no information of our suppliers is given to us.

16. Other informations

Indication of changes: no

Relevant H-phrases of section 3 (number and full text):

H315 Causes skin irritation; H318 Causes serious eye damage; H319 Causes serious eye irritation; H412 Harmful to aquatic life with long lasting effects.

This general description is based on the present state of our knowledge. It should describe our product in view of security requirements and do not have therefore the meaning to assure certain properties. We assume no liability for the completeness, correctness, accuracy and propriety of this information.