

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 15.08.2017

Version number 1

Revision: 03.07.2017

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1 Product identifier

**Trade name: JURA Descaling tablets (2-phase)**

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

**Application of the substance / the mixture** Descaling tablets for fully automatic coffee machines

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier: -**

**Supplier:**

JURA Elektroapparate AG  
CH-4626 Niederbuchsiten  
Tel.: +41 (0)62 389 8181

JURA Elektogeräte Vertriebs-GmbH  
D-90268 Nürnberg  
Tel.: +49 (0)911 25 25 0

**Manufacturer:**

Oxytabs Tablettenproduktion GmbH  
- Member of the Medea Group -  
Suhmsberg 40  
D-24768 Rendsburg  
Germany

**Further information obtainable from:**

Tel.: +49 4331 69620 0  
Fax: +49 4331 69620 22  
E-Mail: info@medeagroup.de

#### 1.4 Emergency telephone number:

Giftnotruf der Charité - Universitätsmedizin Berlin  
D-13437 Berlin  
Tel.: +49 30 30686 700  
Tox Info Suisse  
CH-8032 Zürich  
Tel.: +41 44 2515151 oder 145  
Vergiftungsinformationszentrale Wien  
A-1010 Wien  
Tel.: +43 1 406 43 43

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4	H302 Harmful if swallowed.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

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**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS07

**Signal word** Warning

**Hazard-determining components of labelling:**

maleic acid

**Hazard statements**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P102 Keep out of reach of children.
- P264 Wash hands thoroughly after handling.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- 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.
- P501 Dispose of contents/container in accordance with local regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.2 Chemical characterisation: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 110-16-7 EINECS: 203-742-5 Reg.nr.: 01-2119488705-25-xxxx	maleic acid Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 5329-14-6 EINECS: 226-218-8 Reg.nr.: 01-2119488633-28-xxxx	sulphamidic acid Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	25-50%
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20-xxxx	benzotriazole Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319	0.25-<2.5%

**Specific concentration limits** maleic acid CAS 110-16-7: Skin Sens. 1  $\geq$  0,1

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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**After inhalation:** Supply fresh air.**After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

If symptoms persist consult doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Product itself does not burn.

Use fire extinguishing methods suitable to surrounding conditions.

#### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

Wash residues with water.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Prevent formation of dust.

When handling larger quantities of dissolved product: Avoid contact with eyes and skin

**Information about fire and explosion protection:** No special measures required.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Temperature: not permanently above 50 °C.

Air humidity: not above 50 %, if possible.

Temperature changes: not relevant.

Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** In case of dust formation use respiratory protective device.**Protection of hands:** Protective gloves**Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Wear tightly sealed safety glasses when handling the solution.**Body protection:** Protective work clothing

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

**Appearance:**

Form:	Tablets
Colour:	white, blue
Odour:	Characteristic
Odour threshold:	Not determined.

**pH-value:** Not applicable.**Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not applicable.

**Flash point:** Not applicable.**Flammability (solid, gas):** Not determined.**Ignition temperature:** Not determined.**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Product is not selfigniting.**Explosive properties:** Product does not present an explosion hazard.**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

**Vapour pressure:** Not applicable.

Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.

**Solubility in / Miscibility with water:**

Easily soluble.

**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.

**Solvent content:**

Organic solvents:	0.0 %
VOC (EC)	0.00 %

**Solids content:** 100.0 %**9.2 Other information** No further relevant information available.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** Alkali (lye)

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed.

**LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	1484 mg/kg (rat)
Dermal	LD50	3369 mg/kg (rabbit)
Inhalative	LC50/4 h	29.9 mg/l (rat)

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

Data of the ingredients:

**110-16-7 maleic acid**

EC50/24h | 160 mg/l (Daphnia magna) (IUCLID)

**5329-14-6 sulphamidic acid**

LC50/96h | 70.3 mg/l (Pimephales promelas)

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EC50/24h	71.6 mg/l (Daphnia magna) (OECD 202)
EC50/72h	48 mg/l (algae) (OECD 201)
<b>95-14-7 benzotriazole</b>	
LC50/96h	180 mg/l (Danio rerio) (OECD 203)
EC50/48h	107 mg/l (Daphnia magna) (OECD 202)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<b>14.1 UN-Number</b> ADR, ADN, IMDG, IATA	not regulated
<b>14.2 UN proper shipping name</b> ADR, ADN, IMDG, IATA	not regulated
<b>14.3 Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	not regulated
<b>14.4 Packing group</b> ADR, IMDG, IATA	not regulated
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.

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<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	not regulated

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Labelling according to Regulation (EC) No 1272/2008** GHS label elements**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**National regulations:**

The product is subject to be labeled according to the prevailing version of the regulations on hazardous substances.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** Department R&D**Contact:** Dr. Nico Kotzur**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3