

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date: 11.04.2024

Version number 3.0 (replaces version 2.1)

Revision: 10.04.2024

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 Tablets for descaling fully automatic coffee machines

1.3 Details of the supplier of the safety data sheet

Supplier:

JURA Elektroapparate AG
CH-4626 Niederbuchsiten
Tel.: +41 (0)62 389 82 33

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

Manufacturer:

Oxytabs GmbH
- Member of the Medea Group -
Pellwormer Straße 1
D-24768 Rendsburg
Germany

Further information obtainable from:

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

1.4 Emergency telephone number:

Poison Centre Berlin - Emergency call of the Charité
D-13437 Berlin
Phone: +49 30 30686 700
Emergency call Vienna
A-1010 Vienna
Phone: +43 1 406 43 43
Tox Info Suisse
24-hour emergency number: 145 (from abroad: +41 44 251 51 51)
Information: +41 44 251 66 66

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.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

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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:

The product does not contain components classified as persistent, bioaccumulative and toxic (PBT) in concentrations of 0.1% or higher.

vPvB:

The product does not contain components classified as very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 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	Maleic acid	25-<50%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.1 %	
CAS: 5329-14-6 EINECS: 226-218-8 Reg.nr.: 01-2119488633-28	Sulphamidic acid	25-<50%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20	Benzotriazole	≥0.25-<2.5%
	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319	

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

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

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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:CO₂, powder or water spray. Fight larger fires with water spray.

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.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

 No special precautions are necessary if used correctly.**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:** Keep container tightly sealed.

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

SECTION 8: Exposure controls/personal protection

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.

DNELs

110-16-7 Maleic acid

Dermal	Long-term exposure, local	3 mg/cm ² (Employees)
Inhalative	Short-term exposure, local	3 mg/m ³ (Employees)
	Short-term exposure, systemic	3 mg/m ³ (Employees)
	Long-term exposure, local	3 mg/m ³ (Employees)
	Long-term exposure, systemic	3 mg/m ³ (Employees)

5329-14-6 Sulphamidic acid

Oral	Long-term exposure, systemic	5 mg/kg (general population)
		10 mg/kg (Employees)
Dermal	Long-term exposure, systemic	5 mg/kg (general population)
Inhalative	Long-term exposure, systemic	17.4 mg/m ³ (general population)
		70.5 mg/m ³ (Employees)

95-14-7 Benzotriazole

Oral	Long-term exposure, systemic	0.12 mg/kg (Consumers)
Dermal	Long-term exposure, systemic	0.24 mg/kg (Employees)
		0.12 mg/kg (Consumers)
Inhalative	Long-term exposure, systemic	4.2 mg/m ³ (Employees)
		2.1 mg/m ³ (Consumers)

PNECs

110-16-7 Maleic acid

Fresh water	0.1 mg/l
Sea water	0.01 mg/l
Sediment (fresh water)	0.334 mg/kg
Sediment (seawater)	0.0334 mg/kg
Floor	0.0415 mg/kg
Sewage treatment plant	44.6 mg/l

5329-14-6 Sulphamidic acid

Fresh water	1.8 mg/l
Sea water	0.18 mg/l
Sediment (fresh water)	8.36 mg/kg
Sediment (seawater)	0.84 mg/kg
Floor	5 mg/kg
Sewage treatment plant	20 mg/l

95-14-7 Benzotriazole

Fresh water	0.019 mg/l
Sea water	0.019 mg/l
Sediment (fresh water)	0.22 mg/kg
Sediment (seawater)	0.22 mg/kg

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Floor	0.03 mg/kg
Sewage treatment plant	0.1 mg/l

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

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as 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 a particle-filtering dust mask in accordance with EN 149.

Hand protection Protective gloves according to EN 374

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.2 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 >480 minutes (permeation level: 6)

For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye/face protection Tight-fitting safety goggles according to EN 166

Body protection: Protective work clothing in accordance with EN 13982-1

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Solid
Colour:	White, blue
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH at 20 °C	2.15 (0.1%)
Acid/alkali reserve (J.R. Young et al.):	
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Easily soluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.

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Vapour density	Not applicable.
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9.2 Other information
Appearance:

Form:	Tablets
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Important information on protection of health and environment, and on safety.

Ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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Solvent content:	
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VOC (EC)	0.00 %
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Solids content:	100.0 %
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Change in condition	
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Evaporation rate	Not applicable.
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Information with regard to physical hazard classes

Explosives	Void
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Flammable gases	Void
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Aerosols	Void
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Oxidising gases	Void
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Gases under pressure	Void
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Flammable liquids	Void
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Flammable solids	Void
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Self-reactive substances and mixtures	Void
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Pyrophoric liquids	Void
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Pyrophoric solids	Void
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Self-heating substances and mixtures	Void
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Substances and mixtures, which emit flammable gases in contact with water	Void
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Oxidising liquids	Void
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Oxidising solids	Void
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Organic peroxides	Void
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Corrosive to metals	Void
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Desensitised explosives	Void
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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 Protect from humidity and water.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.

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LD/LC50 values relevant for classification:
110-16-7 Maleic acid

Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)

95-14-7 Benzotriazole

Oral	LD50	500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT-single exposure May cause respiratory irritation.

11.2 Information on other hazards
Endocrine disrupting properties

95-14-7 | Benzotriazole

List II

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
110-16-7 Maleic acid

LC50/96h	75 mg/l (Lepomis macrochirus) (EPA 660/3-75-009)
EC50/48h	42.81 mg/l (Daphnia magna) (OECD 202)
EC50/72h	74.35 mg/l (Pseudokirchnerella subcapitata) (OECD 201)

5329-14-6 Sulphamidic acid

LC50/96h	70.3 mg/l (Pimephales promelas)
EC50/3h	>200 mg/l (Activated sludge) (OECD 209)
EC50/48h	71.6 mg/l (Daphnia magna)
EC50/72h	48 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC/72h	18 mg/l (Desmodesmus subspicatus)

95-14-7 Benzotriazole

LC50/96h	180 mg/l (Danio rerio) (OECD 203)
EC50/48h	15.8 mg/l (Daphnia galeata) (OECD 202)
EC50/72h	75 mg/l (Pseudokirchnerella subcapitata) (OECD 201)

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.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects
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.

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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: Packaging may be reused or recycled after cleaning.

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

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA

Not regulated.

14.2 UN proper shipping name
ADR, IMDG, IATA

Not regulated.

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class

Not regulated.

14.4 Packing group
ADR, IMDG, IATA

Not regulated.

14.5 Environmental hazards:
Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Not regulated.

SECTION 15: Regulatory information

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

Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

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.

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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:** Simone Kühn**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

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

*** Data changed with respect to previous version.**