

Safety data sheet according to UK REACH

Printing date: 13.08.2025

Version number 4.0 (replaces version 3.0)

Revision: 13.08.2025

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: Charité Berlin, Poison control centre: +49 30/19240

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.

Hazard pictograms

GHS07

Signal word Warning**Hazard-determining components of labelling:**

Maleic acid

(Contd. on page 2)

GB

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Version number 4.0 (replaces version 3.0)

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Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 1)

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 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 \geq 0.1 %	25-<50%
CAS: 5329-14-6 EINECS: 226-218-8 Reg.nr.: 01-2119488633-28	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	Benzotriazole Aquatic Chronic 2, H411; Acute Tox. 4, H302	\geq 0.25-<2.5%

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; consult doctor in case of complaints.

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.
If symptoms persist consult doctor.

(Contd. on page 3)

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(Contd. of page 2)

4.2 Most important symptoms and effects, both acute and delayed

Skin irritation
Allergic reactions
Gastric or intestinal disorders
Swallowing difficulties
Sore throat
Cough
Eye irritation

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.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon dioxide (CO₂)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)
Nitrogen oxides (NO_x)

5.3 Advice for firefighters**Protective equipment:**

Wear fully protective suit.
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.
Avoid formation of dust.

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.

(Contd. on page 4)

Safety data sheet according to UK REACH

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Version number 4.0 (replaces version 3.0)

Revision: 13.08.2025

Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 3)

Further information about storage conditions:

Protect from humidity and water.

Keep container tightly sealed.

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

95-14-7 Benzotriazole

Oral	Short-term exposure, systemic	0.54 mg/kg (Consumers)
	Long-term exposure, systemic	0.54 mg/kg (Consumers)
Dermal	Long-term exposure, systemic	1.08 mg/kg (Employees) 0.54 mg/kg (Consumers)
Inhalative	Long-term exposure, systemic	19 mg/m ³ (Employees) 9.55 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
Sporadic release	0.4281 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

(Contd. on page 5)

Safety data sheet according to UK REACH

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Version number 4.0 (replaces version 3.0)

Revision: 13.08.2025

Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 4)

95-14-7 Benzotriazole

Fresh water	0.0194 mg/l
Sea water	0.0194 mg/l
Sediment (fresh water)	0.00375 mg/kg
Sediment (seawater)	0.00375 mg/kg
Floor	0.003 mg/kg
Sewage treatment plant	39.4 mg/l
Sporadic release	0.158 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.

(Contd. on page 6)

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Version number 4.0 (replaces version 3.0)

Revision: 13.08.2025

Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 5)

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.
Vapour density	Not applicable.

9.2 Other information
Appearance:
Form: Tablets

Important information on protection of health and environment, and on safety.

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

Information with regard to physical hazard classes

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

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.

(Contd. on page 7)

Safety data sheet according to UK REACH

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Revision: 13.08.2025

Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 6)

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.

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)

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.

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 Sulphamidy 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)
NOEC/21d	0.97 mg/l (Daphnia galeata) (OECD 211)
NOEC/72h	1.18 mg/l (Desmodesmus subspicatus) (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.

(Contd. on page 8)

Safety data sheet according to UK REACH

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Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 7)

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage.

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.

(Contd. on page 9)

Safety data sheet according to UK REACH

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Trade name: JURA Descaling tablets (2-phase)

(Contd. of page 8)

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.

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.**