

Safety Data Sheet according to WHS Regulations

Date of issue: 14.08.2025

Version number 4.0

Revision: 13.08.2025

1 Identification

Other means of identification

Trade name: JURA Descaling tablets (2-phase)

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

Details of the supplier of the safety data sheet

Supplier:

JURA Australia Espresso Pty Ltd
7-9 Hall Street, Hawthorn East VIC 3123
Australia
Tel: +61 1300 285 872

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

Emergency telephone number:

Poisons Information Centre Australia: 13 11 26
+61 (0)3 92 39 1000 (Weekdays 8.00am to 5.00pm)

2 Hazard(s) Identification

Classification of the substance or mixture

Acute toxicity - oral – Category 4	H302 Harmful if swallowed.
Skin corrosion/irritation – Category 2	H315 Causes skin irritation.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Skin sensitisation – Category 1	H317 May cause an allergic skin reaction.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.

Label elements

GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS07

Signal word Warning

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Hazard-determining components of labelling:

Maleic acid

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Keep out of reach of children.

Wash hands thoroughly after handling.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local regulations.

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.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 110-16-7 EINECS: 203-742-5	Maleic acid	25-<50%
	Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	
CAS: 5329-14-6 EINECS: 226-218-8	Sulphamidic acid	25-<50%
	Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	
CAS: 95-14-7 EINECS: 202-394-1	Benzotriazole	≥0.25-<2.5%
	Acute toxicity - oral – Category 4, H302	

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

4 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.

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If symptoms persist consult doctor.

Information for doctor:**Most important symptoms and effects, both acute and delayed**

Skin irritation

Allergic reactions

Gastric or intestinal disorders

Swallowing difficulties

Sore throat

Cough

Eye irritation

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

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**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)**Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.

Avoid formation of dust.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

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.

7 Handling and Storage

Handling:**Precautions for safe handling** No special precautions are necessary if used correctly.**Information about fire and explosion protection:** No special measures required.**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.

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Further information about storage conditions:

Protect from humidity and water.

Keep container tightly sealed.

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

8 Exposure controls and personal protection

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 Sulphamidy 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 Sulphamidy 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

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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.

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.

Protection of hands: 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 protection: Tight-fitting safety goggles according to EN 166

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

9 Physical and Chemical Properties

General Information

Appearance:

Form:	Tablets
Colour:	White, blue
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	2.15 (0.1%)
Change in condition	
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not applicable.
Flash point:	Not applicable.
Flammability	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
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.

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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:	
VOC (EC)	0.00 %
Solids content:	100.0 %

Other information	
Particle characteristics	Not determined.
Physical state	Solid

10 Stability and Reactivity

Reactivity No further relevant information available.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid Protect from humidity and water.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

Information on toxicological effects

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.

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.

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Trade name: JURA Descaling tablets (2-phase)
Aspiration hazard Based on available data, the classification criteria are not met.

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12 Ecological Information

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)
NOEC/21d	0.97 mg/l (Daphnia galeata) (OECD 211)
NOEC/72h	1.18 mg/l (Desmodesmus subspicatus) (OECD 201)

Persistence and degradability No further relevant information available.

Behaviour in environmental systems:
Bioaccumulative potential No further relevant information available.

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

Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

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.

14 Transport information

UN-Number
ADG, IMDG, IATA

Not regulated.

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UN proper shipping name
ADG, IMDG, IATA

Not regulated.

Transport hazard class(es)
ADG, ADN, IMDG, IATA
Class

Not regulated.

Packing group
ADG, IMDG, IATA

Not regulated.

Environmental hazards:
Marine pollutant:

No

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of
Marpol and the IBC Code

Not applicable.

UN "Model Regulation":

Not regulated.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Australian Inventory of Industrial Chemicals

110-16-7 Maleic acid

5329-14-6 Sulphamidic acid

144-55-8 Sodium bicarbonate

95-14-7 Benzotriazole

Standard for the Uniform Scheduling of Medicines and Poisons

5329-14-6 Sulphamidic acid

S5, S6

Australia: Priority Existing Chemicals

None of the ingredients is listed.

GHS label elements 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.

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

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.

Department issuing SDS: Department R&D

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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

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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute toxicity - oral – Category 4: Acute toxicity – Category 4

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

Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Skin sensitisation – Category 1: Skin sensitisation – Category 1

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

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