

Safety Data Sheet according to WHS Regulations

Printing date: 07.05.2018

Version number 1

Revision: 03.07.2017

1 Identification

Product identifier**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** Descaling tablets for fully automatic coffee machines**Details of the supplier of the safety data sheet****Manufacturer/Supplier: -****Supplier:**

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

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

Emergency telephone number:

Poisons Information Centre
Tel: +61 131126

2 Hazard(s) Identification

Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 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
benzotriazole

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 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: Not applicable.
vPvB: Not applicable.

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 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 5329-14-6 EINECS: 226-218-8	sulphamic acid Skin Irrit. 2, H315; Eye Irrit. 2A, H319	25-50%
CAS: 95-14-7 EINECS: 202-394-1	benzotriazole Acute Tox. 4, H302; Eye Irrit. 2A, H319	≥0.25-<2.5%

Specific concentration limits maleic acid CAS 110-16-7: Skin Sens. 1 ≥ 0,1

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

4 First Aid Measures

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

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Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire Fighting Measures

Extinguishing media**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray.

Product itself does not burn.

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture No further relevant information available.**Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation**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.

Wash residues with water.

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**

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.**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.

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

8 Exposure controls and personal protection

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

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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.

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: Not required.

Protection of hands: Protective gloves

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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

9 Physical and Chemical Properties

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.
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Change in condition

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

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

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not applicable.
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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 %
Other information	No further relevant information available.

10 Stability and Reactivity

Reactivity No further relevant information available.

Chemical stability

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 No further relevant information available.

Incompatible materials: Alkali (lye)

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

Information on toxicological effects

Acute toxicity

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 Irritant to skin and mucous membranes.

Serious eye damage/irritation Irritating effect.

Respiratory or skin sensitisation Sensitisation possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

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12 Ecological Information

Toxicity

Aquatic toxicity:

110-16-7 maleic acid

EC50/24h	160 mg/l (Daphnia magna) (IUCLID)
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5329-14-6 sulphamic acid

LC50/96h	70.3 mg/l (Pimephales promelas)
EC50/24h	71.6 mg/l (Daphnia magna) (OECD 202)
EC50/72h	48 mg/l (algae) (OECD 201)

95-14-7 benzotriazole

LC50/96h	180 mg/l (Danio rerio) (OECD 203)
EC50/48h	107 mg/l (Daphnia magna) (OECD 202)

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
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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. 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.

14 Transport information

UN-Number

ADG, ADN, IMDG, IATA	not regulated
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UN proper shipping name

ADG, ADN, IMDG, IATA	not regulated
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Transport hazard class(es)

ADG, ADN, IMDG, IATA	not regulated
Class	

Packing group

ADG, IMDG, IATA	not regulated
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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 Chemical Substances	
110-16-7	maleic acid
5329-14-6	sulphamidic acid
144-55-8	sodium hydrogencarbonate
Standard for the Uniform Scheduling of Medicines and Poisons	
5329-14-6	sulphamidic acid
	S5, S6

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.
- H312 Harmful in contact with skin.
- 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

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
- 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. 2A: Serious eye damage/eye irritation – Category 2A

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Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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