

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 1 of 8

#### Section 1 - Identification

##### Product identifier

Nespresso Descaling

##### Recommended use of the chemical and restrictions on use

###### Use of the substance/mixture

DESCALERS

###### Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals as listed in WHS

###### Schedule 10

None

##### Details of manufacturer or importer

###### Manufacturer

Company name:	düring ag	
Street:	Brunnenwiesenstrasse 14	
Place:	CH-8108 Dällikon	
Telephone:	+41 44 847 27 47	Telefax: +41 44 844 38 90
E-mail:	info@dueringag.ch	

###### Supplier

Company name:	Nespresso Australia	Nespresso New Zealand
Street:	Level 4, 201 Miller Street,	Level 3, 12-16 Nicholls Lane
Place:	AUS-NSW 2060 North Sydney	Parnell, Auckland
Telephone:	1800 623 033	0800 234 579

**Emergency phone number:** Poisons Information Centre: 13 11 26

#### Section 2 - Hazard(s) identification

##### Classification of the hazardous chemical

###### WHS 2021

Skin corrosion/irritation: Skin Irrit. 2

Eye damage/irritation: Eye Irrit. 2

##### Label elements, including precautionary statements

###### WHS 2021

###### Hazard components for labelling

sulphamic acid; sulphamic acid; sulfamic acid: < 10 %

**Signal word:** Warning

**Pictograms:**



exclamation mark

###### Hazard statements

H315	Causes skin irritation
H319	Causes serious eye irritation

###### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 2 of 8

- P280 Wear protective gloves and eye/face protection.
- 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.

#### Additional advice on labelling

No need for classification as corrosive in spite of the extreme pH.

#### Other hazards

No information available.

### Section 3 - Composition and information on ingredients

#### Mixtures

**Chemical characterization**  
in aqueous solution

#### Relevant ingredients

CAS No	Chemical name	Quantity
5329-14-6	sulphamidic acid; sulphamic acid; sulfamic acid	< 10 %

### Section 4 - First aid measures

#### Description of necessary first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice.

##### After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Get medical help if you feel unwell.

#### Symptoms caused by exposure

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

#### Medical attention and special treatment

Treat symptomatically.

### Section 5 - Firefighting measures

#### Suitable extinguishing equipment

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet, Foam  
Co-ordinate fire-fighting measures to the fire surroundings.

##### Unsuitable extinguishing media

Full water jet

#### Specific hazards arising from the chemical

Non-flammable.

In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 3 of 8

monoxide (CO), Pyrolysis products, toxic.

#### **Special protective equipment and precautions for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Hazchem code: -

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### Section 6 - Accidental release measures

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

##### **General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

##### **For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment.

##### **For emergency responders**

Personal protection equipment: see section 8

#### **Environmental precautions**

Avoid release to the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater.

#### **Methods and materials for containment and cleaning up**

##### **For containment**

Stop leak if safe to do so. Cover drains.

##### **For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### **Other information**

Clean contaminated articles and floor according to the environmental legislation.

#### **Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### Section 7 - Handling and storage

#### **Precautions for safe handling**

##### **Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Do not use for injecting or spraying. Use personal protection equipment.

##### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

##### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

##### **Further information on handling**

Additional information: Follow the instructions for use on the label. [www.durgol.com](http://www.durgol.com)

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container.

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 4 of 8

Unsuitable container/equipment material: chromium, silver, plastic (POM)

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Recommended storage temperature + 5°C - +30°C

Protect against: Frost, heat.

Please note the expiry date > 36 month(s)

## Section 8 - Exposure controls and personal protection

### Exposure control measures

#### Workplace Exposure Standards (WES)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	WES
		15	37		STEL (15 min)	WES

### Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

#### Individual protection measures, for example personal protective equipment (PPE)

##### Eye and face protection

Eye protection: not required.

Avoid direct eye contact with product, also via contamination on hands.

##### Hand protection

Hand protection is not required.

Ensure that direct skin contact is avoided.

##### Skin protection

Body protection: not required.

Ensure that direct skin contact is avoided.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

##### Thermal hazards

No information available.

##### Environmental exposure controls

Avoid release to the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater.

## Section 9 - Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	not determined

Melting point/freezing point:	0 °C	<b>Test method</b>
Boiling point or initial boiling point and boiling range:	100 °C	DIN 38404 C4
Flammability:	Non-flammable.	
Lower explosion limits:	not determined	

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 5 of 8

Upper explosion limits:	not determined
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value (at 20 °C):	< 1 DIN 19268
Viscosity / kinematic: (at 25 °C)	0,83 mm <sup>2</sup> /s calculated.
Water solubility:	easily soluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	100 hPa calculated.
Density (at 20 °C):	1,08 g/cm <sup>3</sup> ISO 2811-3
Relative vapour density:	not determined
Particle characteristics:	not applicable

#### Other information

##### **Other safety characteristics**

Viscosity / dynamic:  
(at 25 °C) 0,90 mPa·s DIN 53221

##### **Further Information**

Acidic reserve [g NaOH/100 g product]: 6,10  
Corrosion rate (mm aluminium/year), 55 °C: 1,82  
Corrosion rate (mm steel/year), 55 °C: 0,70

### Section 10 - Stability and reactivity

#### Reactivity

Exothermic reaction with: Oxidizing agent, alkalines.  
Reacts with: Inorganic silicates and carbonates Formation of: Carbon dioxide (CO<sub>2</sub>).

#### Chemical stability

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### Conditions to avoid

Frost, heat.

#### Incompatible materials

chromium  
silver  
plastic (POM)

#### Hazardous decomposition products

In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), Pyrolysis products, toxic.

### Section 11 - Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

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

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 6 of 8

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5329-14-6	sulphamidic acid; sulphamic acid; sulfamic acid				
	oral	LD50 > 2000 mg/kg	Rat	Manufacturer	OECD 401

#### Irritation and corrosivity

Causes skin irritation (On basis of test data)  
 Causes serious eye irritation (On basis of test data)  
 Irritating to respiratory system.

No need for classification as corrosive in spite of the extreme pH. (Test results: Acidic reserve [g NaOH/100 g product] 6.10 & Sulfamic Acid Registration Dossier according to Regulation (EC) No. 1907/2006 [REACH].)

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### 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.

#### Information on possible routes of exposure

oral, Skin contact, Eye contact, Inhalation.

#### Practical experience

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Subsequent observance for pneumonia and lung oedema.

#### Information on other hazards

##### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

##### Interactive effects

No information available.

### Section 12 - Ecological information

#### Ecotoxicity

The product is not: Ecotoxic.

#### Persistence and degradability

Not applicable for inorganic substances.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 7 of 8

#### Other adverse effects

Damaging effect on aquatic ecosystems possible due to change in the pH value.

#### Further information

Avoid release to the environment.

### Section 13 - Disposal considerations

#### Disposal methods

##### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.  
Cleaning agent Recommended material: Water.

### Section 14 - Transport information

#### **Land transport (ADG)**

UN proper shipping name or technical name:

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

UN number or ID number:  
UN proper shipping name or technical name:

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

Transport hazard class:

No dangerous good in sense of this transport regulation.

Packing group number:

No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO-TI/IATA-DGR)**

UN number or ID number:  
UN proper shipping name or technical name:

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

Transport hazard class:

No dangerous good in sense of this transport regulation.

Packing group number:

No dangerous good in sense of this transport regulation.

#### **Environmental hazards for transport purposes**

ENVIRONMENTALLY HAZARDOUS: No

#### **Special precautions for user**

No information available.

#### **Maritime transport in bulk according to IMO instruments**

not applicable

#### **Additional information**

No need for classification as corrosive in spite of the extreme pH.

Hazchem code: -

### Section 15 - Regulatory information

#### **National regulatory information**

Poisons Schedule number (SUSMP):

SCHEDULE 5: SULFAMIC ACID

AiIC Inventory status:

All ingredients are listed in inventory or exempt.

Sulfamic Acid: MAO tier I assesment Health/Environment

Acetic Acid: IMAO tier II assesment Health/ tier I assesment Environment

### Section 16 - Any other relevant information

## Safety Data Sheet

according to WHS Regulation

### Nespresso Descaling

Revision date: 09.02.2024

Page 8 of 8

Revision date: 09.02.2024

Revision No: 1,0

#### Key abbreviations or acronyms used

WHS: Work health and safety

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

STEL: Short-term exposure limit

TWA: time-weighted average

TI: Technical Instructions

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

AICS: Australian Inventory of Chemical Substances

NICNAS: National Industrial Chemicals Notification and Assessment Scheme

IMAP: Inventory Multitiered Assessment and Prioritisation

DGR: Dangerous Goods Regulations

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ADG: Australian Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### Key literature references and sources for data

Sulfamic Acid Registration Dossier according to Regulation (EC) No. 1907/2006 [REACH]. (Last modified: 28 Oct. 2022)

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*