DÜRING AG

Safety data sheet

Date of issue: Oct. 2005

---

1. Product Name: **durgol swiss espresso**

Application: Decalcifier for espresso machines

Company:

Düring AG
Brunnenwiesenstrasse 14
CH- 8108 Dällikon

Phone: +41 (0)44 847 27 47
Fax: +41 (0)44 844 38 90

Toxicological information centre:

Zurich +41 (0)44 251 51 51
Berlin +49 (0)30 192 40
Vienna +43 (0)1 406 43 43

---

2. Composition

Component name	% Weight	CAS-No.	EC-No.	INDEX-No.	Symbol	R-phrases
Amidosulfonic acid	~15%	005329-14-6	226-218-8	016-026-00-0	Xi	36/38-52/53

---

3. Hazard Identification

No dangerous preparation. Long and repeated contact may cause irritation to skin. Direct contact to eyes may cause slightly irritation. After ingestion irritation of mucous membranes possible.

---

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Remove contaminated clothes. Wash skin with water and soap. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water, then give plenty of water to drink, vomit and seek medical advice.

Inhalation: Remove affected person to fresh air. Get medical attention if any discomfort continues.

---

5. Fire Fighting Measures

Self-contained breathing apparatus/full protective clothing. Endangered containers – cool with water spray and move from fire area. The product is not combustible but after evaporation of the water-phase at 250°C sulphur oxides and nitrogen may arise.

Extinguishing media: Suitable: water spray, dry powder, CO2, foam
Not suitable: water-jet

---

6. Accidental Release Measures

Personal precautions: Avoid contact with skin and eyes. Care for well-ventilated area. Use personal protection equipment.
Environmental precautions: Do not allow to enter open bodies of water or subsoil
Methods for cleaning: Absorb spillage into inert absorbent material and place into sealed container for disposal (see chapter 13).

---

7. Handling & Storage

Handling: Avoid contact with skin and eyes. Use only in well-ventilated areas.
Storage: Store in original container, tightly closed on a well-ventilated, cool and dry place. Keep away from food, drink and animal feeding stuff.

---

8. Exposure Controls & Personal Protection

When using do not eat, drink or smoke. Wash hand with water and soap after working with the product. Use only in well-ventilated areas. Avoid contact with skin and eyes.

Eyes: Safety goggles if needed
Hands: protective gloves if needed

---

9. Physical & Chemical Properties

Physical state, odour: liquid, uncoloured, weak characteristic smell
Flash point: n.a.
Specific gravity: 1.1 g/cm3 (20°C)
Solubility: miscible with water
pH < 1 (direct)

---

10. Stability & Reactivity

Materials/conditions to avoid: Avoid contact with strong lyes.
Hazardous decomposition products: At about 80°C amidosulfonic acid will be hydrolysed to ammonium hydrogen sulphate.

---

11. Toxicological Information

Inhalation: Inhalation of high concentrations can irritate the respiratory system.
Skin contact: Long and repeated contact may cause irritation.
Eye contact: Direct contact to eyes may cause slight irritation.
Ingestion: Gastric troubles and slightly irritation of mucous membranes possible. In extreme cases coagulation necrosis possible.

---

12. Ecological Information

WGK-Germany:	1 (according to VwVwS-Germany) Do not allow to enter open bodies of water and the subsoil.
Austria:	Wasserrechtsgesetz 1959 (BGBl 215/1959) and specific Emissionsverordnung
Germany:	Wasserhaushaltsgesetz (BGBl I 1996 S 1696)
EU:	Directive 76/464/EC

---

13. Disposal

EW-Code:
161001 (watery liquid waste, contains dangerous substances)

Waste Code Austria ÖNORM S2100:
52102 (inorganic acids and mixtures of inorganic acids)

A:	Abfallwirtschaftsgesetz 2002 (BGBl I 102/2002)
G:	Kreislaufwirtschafts- und Abfallgesetz (BGBl I 1994 S 2705)
EU:	EEC 259/93

---

14. Transport Information

ADR/RID	n.a.
IMDG:	n.a.
IATA/ICAO:	n.a.

No dangerous good according to international transport regulations.

---

15. Regulatory Information

No dangerous preparation in accordance with directive 1999/45EC and the following national regulations.

National regulations: (D)WGK = slightly hazardous to water(classification for small amounts)

Austria:	Chemikaliengesetz 1996 (BGBl I 53/1997) Chemikalienverordnung 1999 (GGBl II 81/2000)
Germany:	Chemikaliengesetz (BGBl I 2002 S2090) Gefahrstoffverordnung (BGBl I 1999 S. 2233)

---

16. Other Information

The specified regulations refer to the current version.
n.a. not applicable
R-phrases from chapter 2 not listed in chapter 15: R36/38 Irritating to eyes and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This safety data sheet has been prepared in accordance with the requirements of directive 91/155/EEC. The environmental, health and safety information contained herein is based on our current knowledge. It remains the responsibility of the customer to provide a safe workplace and to comply with all applicable laws and regulations. This data sheet and the information it contains is not intended to supersede any terms and conditions of sale and does not constitute a specification, promise, representation, or warranty, wether express or implied, except to the extent required by applicable law.