

**Safety data sheet**  
**ACCORDING TO COMMISSION REGULATION (EU) 2020/878**  
**amending Annex II to Regulation (EC) No 1907/2006**

Printing date 05.04.2024

Version number 4.0 (replaces version 3.0)

Revision: 05.04.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** IZO ODKAMIENIACZ do urządzeń AGD
- **UFI:** SP3E-X5MU-KK5X-RHRF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Deliming agent*
- **Uses advised against:** *No further relevant information available.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Dr. Miele Cosmed Group S.A.*  
*Ul. Wielkopolska 3,*  
*26-600 Radom, Poland*  
*Tel. +48 48 384 58 01*  
*www.dr-miele.eu*  
*info@dr-miele.eu*
- **1.4 Emergency telephone number:** + 48 76 870 30 31 (Mo. to Fr. 8:00 - 16:00) or 112

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.*
- Eye Irrit. 2 H319 Causes serious eye irritation.*
- STOT SE 3 H335 May cause respiratory irritation.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard-determining components of labelling:**  
*CITRIC ACID (Citric Acid Monohydrate)*
- **Hazard statements**  
*H315 Causes skin irritation.*  
*H319 Causes serious eye irritation.*  
*H335 May cause respiratory irritation.*
- **Precautionary statements**  

<i>P101</i>	<i>If medical advice is needed, have product container or label at hand.</i>
<i>P102</i>	<i>Keep out of reach of children.</i>
<i>P261</i>	<i>Avoid breathing dust.</i>
<i>P280</i>	<i>Wear protective gloves / eye protection / face protection.</i>

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- P302+P352 *IF ON SKIN: Wash with plenty of water.*  
 P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
 P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
 P312 *Call a POISON CENTER/doctor if you feel unwell.*  
 P501 *Dispose of contents/container in accordance with national regulations to disposal.*

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Determination of endocrine-disrupting properties** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

CAS: 5949-29-1 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	CITRIC ACID (Citric Acid Monohydrate) ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	≥60-≤100%
CAS: 5329-14-6 EINECS: 226-218-8 Index number: 016-026-00-0 Reg.nr.: 01-2119846728-23 01-2119488633-28	SULFAMIC ACID (Sulphamic acid) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≥15-<25%

- **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:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Rinse with warm water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Water spray
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Avoid skin and eye contact.  
 Slipping hazard due to leaking product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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 measures required.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of dust.  
 Keep away from frost and heat.
- **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.  
**Further information about storage conditions:**  
 Keep container tightly sealed.  
 Store and transport uprightly.
- **Storage class:** 8 A
- **7.3 Specific end use(s)**  
 The product is a cleaning product for household use. Observe the warnings and instructions on the packaging.

### 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**

**5329-14-6 SULFAMIC ACID (Sulphamic acid)**

Oral	DNEL - long-term, oral, systemic effect	1.06 mg/kg (consumer)
Dermal	DNEL - long-term, dermal, systemic effect	10 mg/kg (worker)
		5 mg/kg (consumer)

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· <b>PNECs</b>	
<b>5949-29-1 CITRIC ACID (Citric Acid Monohydrate)</b>	
PNEC water (fresh water)	440 µg/l
PNEC water (marine water)	44 µg/l
PNEC sediment (fresh water)	34.6 mg/kg
PNEC sediment (marine water)	3.46 mg/kg
PNEC (soil)	33.1 mg/kg
PNEC (sewage plant)	>1,000 mg/l
<b>5329-14-6 SULFAMIC ACID (Sulphamic acid)</b>	
PNEC water (fresh water)	48 µg/l
PNEC water (marine water)	4.8 µg/l
PNEC sediment (fresh water)	0.173 mg/kg
PNEC sediment (marine water)	0.0173 mg/kg

· **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.

No further relevant information available.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

Due to missing tests, it is not possible to give exact information about the glove material for the product.

Recommended is therefore:

Only use chemical-protective gloves with CE-labelling of category III.

· **Material of gloves**

Recommended for contact with the product are protective gloves of chemical protection category III made of special nitrile (material thickness > 0.1 mm). Protective gloves should be tested for workplace specific suitability (e.g. mechanical and thermal resistance, antistatic, etc.). For first signs of wear, the protective gloves must be replaced immediately.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

Penetration time > 480 minutes recommended. Named penetration times can be significantly shorter in practice.

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· **Eye/face protection**

Tightly sealed goggles

· **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.

· **Environmental exposure controls**

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

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**

· <b>Physical state</b>	Solid
· <b>Colour:</b>	White
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	Undetermined.
· <b>Flammability</b>	Not determined.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20 °C</b>	2.1 (1%)
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not applicable.
· <b>Dynamic:</b>	Not applicable.
· <b>Solubility</b>	
· <b>water:</b>	Soluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Particle characteristics</b>	No data available. / Not applicable.

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Powder
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Solids content:</b>	100.0 %

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- **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** Product is stable.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Keep away from frost and heat.
- **10.5 Incompatible materials:** No further relevant information available.
- **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** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**5949-29-1 CITRIC ACID (Citric Acid Monohydrate)**

Oral	LD50	5,400 mg/kg (mouse) (OECD TG 401)
		>3,000 mg/kg (rat)

Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402)
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**5329-14-6 SULFAMIC ACID (Sulphamic acid)**

Oral	LD50	3,160 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rat)
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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **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.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**5949-29-1 CITRIC ACID (Citric Acid Monohydrate)**
Toxicity (fish): LC50 440-760 mg/l, 96 h (*Leuciscus idus*)Toxicity (Algae): EC50 120 mg/l, 72 h (*Daphnia carinata*)
**5329-14-6 SULFAMIC ACID (Sulphamic acid)**
Toxicity (fish): LC50 70.3 mg/l, 96 h (*Pimephales promelas*) (OECD TG 203)Toxicity (Algae): EC50 >29 mg/l, 72 h (*Desmodesmus subspicatus*)

- **12.2 Persistence and degradability**

No information for the product available. The contained surfactants are readily biodegradable.

**5949-29-1 CITRIC ACID (Citric Acid Monohydrate)**

Readily biodegradable 97 % (28 d) (OECD TG 301 B)

- **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.· **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **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.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Empty the container thoroughly.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **Waste disposal key:**

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· **Uncleaned packaging:**· **Recommendation:**

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper 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**

UNI759

· **14.2 UN proper shipping name**· **ADR**

1759 CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

· **IMDG, IATA**

CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG1) Acids

· **Stowage Category**

A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **Transport category**

3

· **Tunnel restriction code**

E

· **IMDG**· **Limited quantities (LQ)**

5 kg

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· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 1759 CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID), 8, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Regulations:** Regulation (EC) No: 1907/2006, 1272/2008, 648/2004 (all as amended).
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
None of the ingredients is listed.
- **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting potential)**
- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on our present knowledge. In particular, the information derive the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. The information does not constitute any guarantee of product quality and/or quality features. This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- **Training hints**  
When manufacturing and distributing the product: information and instruction in handling, safety and hygiene.  
When transporting the product: information and instruction in ADR.

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· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS: Regulatory Affairs**

· **Contact:**

reg@dr-miele.eu

info@dr-miele.eu

· **Date of previous version: 12.12.2022**

· **Version number of previous version: 3.0**

· **Abbreviations and acronyms:**

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

MARPOL: International Convention for the Prevention of Marine Pollution from Ships (marine pollution)

IBC: Intermediate Bulk Container

IMO: International Maritime Organisation

ECHA: European Chemicals Agency

IVIS: In Vitro Irritancy Score

CLP regulation: "Classification, Labelling and Packaging" regulation, regulation (EC) Nr. 1272/2008

REACH (regulation): "Registration, Evaluation, Authorisation and Restriction of Chemicals" regulation, regulation (EC) Nr. 1907/2006

CE: Conformité Européenne (European Conformity)

Reg. no.: Registration number

log Kow / log Pow: decadic logarithm of the octanol/water partition coefficient

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)

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

EC50: Effective concentration, 50 percent

WEL: Workplace Exposure Limits

NOAEL (NOAEC): No observed adverse effect level (concentration)

NOEL (NOEC): No observed effect level (concentration)

NLP: No-Longer-Polymer

OECD: Organisation for Economic Co-operation and Development

TG: Test Guideline

BCOP: Bovine Corneal Opacity and Permeability

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3