

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

Printing date 02.09.2024

Version number 4.0 (replaces version 3.0)

Revision: 02.09.2024

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

- **1.1 Product identifier**
- **Trade name:** IZO Cleaning powder – Apple-mint
- **UFI:** XJMN-EDPR-RQ3R-CC3C
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Cleaning material/ Detergent
- **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 48 384 58 01 (Mo. to Fr. 8:00 - 17:00) or 112

**SECTION 2: Hazards identification**

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



GHS07

Eye Irrit. 2 H319 Causes serious eye 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 statements**  
 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.
P260	Do not breathe dust.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P501	Dispose of completely emptied container to the segregated municipal waste.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **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: 497-19-8	SODIUM CARBONATE (Sodium carbonate)	≥1-<5%
EINECS: 207-838-8	⚠ Eye Irrit. 2, H319	
Index number: 011-005-00-2		
Reg.nr.: 01-2119485498-19		

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

anionic surfactants, oxygen-based bleaching agents	<5%
perfumes	

· **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:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

Immediately rinse with water.

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**

During heating or in case of fire poisonous gases are produced.

· **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**

Mount respiratory protective device.

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.

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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:** Keep respiratory protective device available.

· **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:** 11

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

### 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**

**497-19-8 SODIUM CARBONATE (Sodium carbonate)**

Inhalative	DNEL - long-term, inhaled, local effect	10 mg/m <sup>3</sup> (worker)
		10 mg/m <sup>3</sup> (consumer)

**68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)**

Oral	DNEL - long-term, oral, systemic effect	0.85 mg/kg (consumer)
Dermal	DNEL - long-term, dermal, systemic effect	170 mg/kg (worker)
		85 mg/kg (consumer)
Inhalative	DNEL - long-term, inhaled, systemic effect	12 mg/m <sup>3</sup> (worker)
		3 mg/m <sup>3</sup> (consumer)

**15630-89-4 SODIUM CARBONATE PEROXIDE (Sodium Percarbonate)**

Dermal	DNEL - short-term, dermal, local effect	12.8 mg/cm <sup>2</sup> (worker)
		6.4 mg/cm <sup>2</sup> (consumer)
Inhalative	DNEL - long-term, inhaled, local effect	5 mg/m <sup>3</sup> (worker)

· **PNECs**

**68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)**

PNEC water (fresh water)	268 µg/l
PNEC water (marine water)	26.8 µg/l
PNEC water (intermittent)	16.7 µg/l
PNEC sediment (fresh water)	8.1 mg/kg

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PNEC sediment (marine water)	6.8 mg/kg
PNEC (soil)	35 mg/kg
PNEC (sewage plant)	3.43 mg/l
<b>15630-89-4 SODIUM CARBONATE PEROXIDE (Sodium Percarbonate)</b>	
PNEC water (fresh water)	35 µg/l
PNEC (sewage plant)	16 mg/l

· **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.

· **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.

Avoid contact with the eyes and skin.

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· **Environmental exposure controls**

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

\* **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>	Grey
· <b>Odour:</b>	Product specific
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	124-128 °C (123-86-4 n-butyl acetate)
· <b>Flammability</b>	Not flammable.
· <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>	8-<11.5
· <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 at 20 °C:</b>	1.11 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Particle characteristics</b>	
See section 3.	

· **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>Organic solvents:</b>	0.0 %
· <b>Solids content:</b>	>95.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void

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· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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:**

#### 497-19-8 SODIUM CARBONATE (Sodium carbonate)

Oral	LD50	2,800 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

#### 68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)

Oral	LD50	1,020 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

#### 15630-89-4 SODIUM CARBONATE PEROXIDE (Sodium Percarbonate)

Oral	LD50	893-1,164 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.

#### 68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)

NOAEL	125 mg/kg bw/d /28 d (rat)
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- **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.

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- **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:**

**497-19-8 SODIUM CARBONATE (Sodium carbonate)**

Toxicity (fish): LC50	300-500 mg/l, 96 h (Lepomis macrochirus) (OECD TG 203)
Toxicity (Daphnia): EC50	200-227 mg/l, 48 h (Ceriodaphnia sp.) (OECD TG 202)

**68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)**

Toxicity (fish): LC50	1.67 mg/l, 96 h (Lepomis macrochirus) (OECD TG 203)
Toxicity chronic (fish): NOEC	>0.43-0.89 mg/l, 28 d (Oncorhynchus mykiss) (OECD TG 210)
	1 mg/l, 28 d (Lepomis macrochirus) (OECD TG 204)
Toxicity (Daphnia): EC50	2.9 mg/l, 48 h (Daphnia magna) (OECD TG 202)
Toxicity (Algae): EC50	127.9 mg/l, 72 h (Desmodesmus subspicatus)
Toxicity chronic (Algae): NOEC	2.4 mg/l, 72 h (Desmodesmus subspicatus)

**15630-89-4 SODIUM CARBONATE PEROXIDE (Sodium Percarbonate)**

Toxicity (fish): LC50	70.7 mg/l, 96 h (Pimephales promelas)
Toxicity (Daphnia): EC50	4.9 mg/l, 48 h (Daphnia magna)

- **12.2 Persistence and degradability**

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

**68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)**

Readily biodegradable	>85 % (28d) (OECD TG 301 D)
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- **12.3 Bioaccumulative potential**

**68411-30-3 SODIUM DODECYLBENZENESULFONATE (Benzenesulfonic acid C10-13-alkyl derivatives, sodium salts)**

Log Kow	3.4 (Potential: low)
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- **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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow undiluted product to reach sewage system.

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:**

20 01 29

15 01 10

· **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**

Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

· **UN "Model Regulation":**

Void

### 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).

· **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.

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· **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 (EU) 2024/590 on substances that deplete the ozone layer**

- **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**

H319 Causes serious eye irritation.

· **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.

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

Classification according to calculation method.

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

FS

· **Contact:** reg@dr-miele.eu· **Date of previous version:** 09.06.2023· **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

bw/d: body weight per day

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)

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*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**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**· \* Data compared to the previous version altered.*

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