

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

DG-88

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

1.1. Product identifier

Product name DG-88

Product code None.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture Flocculating agent

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Carlo Bernasconi AG
Juchstrasse 11
CH-8048 Zürich
Fon +41 84 838 80 00
Fax +41 84 838 80 01
info@carloag.ch

1.4. Emergency telephone number 145 (Tox Info Suisse)

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Version 4 (Previous versions: 3)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Serious eye damage/eye irritation, Cat. 1, H318

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



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|---------------------------------|--|
| Signal Word | Danger |
| Hazard Statements | H318: Causes serious eye damage. |
| Precautionary statements | P280: Wear protective gloves, eye protection and 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. P310: Immediately call a POISON CENTER or doctor/physician. |
| Supplemental information | None. |
| Product identifier | Aluminum sulfate, CAS-No. 17927-65-0, EC-No. 233-135-0 Sodium carbonate, CAS-No. 497-19-8, EC-No. 207-838-8 |

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture of various minerals

| Components | | CLP Classification | Product identifier |
|-------------------|-----------|--------------------|---|
| Aluminum sulfate | 10% - 20% | Eye Dam. 1 H318 | CAS-No.: 17927-65-0 EC-No.: 233-135-0 |
| Sodium carbonate | 10% - 20% | Eye Irrit. 2 H319 | CAS-No.: 497-19-8 EC-No.: 207-838-8 Index-No: 011-005-00-2 |
| Bentonite | | - | CAS-No.: 1302-78-9 EC-No.: 215-108-5 |
| Calcium carbonate | | - | CAS-No.: 471-34-1 EC-No.: 207-439-9 REACH No.: 01-2119486795-18-XXX |

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Move to fresh air. |
| Skin contact | Wash with water and soap as a precaution. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. |
| Ingestion | Rinse mouth. |

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| 4.2. Most important symptoms and effects, both acute and delayed | None known. |
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| 4.3. Indication of any immediate medical attention and special treatment needed | None known. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | No special measures required. |
| Extinguishing media which must not be used for safety reasons | None. |

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| 5.2. Special hazards arising from the substance or mixture | The product is not flammable. |
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5.3. Advice for firefighters

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| Special protective equipment for firefighters | Not required. |
| Specific methods | No special measures required. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| Advice for non-emergency personnel | Avoid dust formation. |
| Advice for emergency responders | Avoid breathing dust. |

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| 6.2. Environmental precautions | No special environmental precautions required. |
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6.3. Methods and material for containment and cleaning up

Use approved industrial vacuum cleaner for removal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store at room temperature in the original container. Unsuitable materials: aluminum.

7.3. Specific end use(s)

Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

No data is available on the product itself.

Calcium carbonate (CAS 471-34-1)

Switzerland - Occupational
Exposure Limits - TWAs - (MAKs)

3 mg/m³ TWA [MAK] (respirable dust)

8.2. Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection

Respirator must be worn if exposed to dust. Half mask with a particle filter P2 (EN 143).

Hand protection

Gloves made of latex. The selected protective gloves have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it. The exact break through time can be obtained from the protective glove producer and this has to be observed.

Eye protection

Safety glasses with side-shields conforming to EN166.

Skin and body protection

No special measures required.

Thermal hazards

No special measures required.

Environmental exposure controls

No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| Physical state | Powder. |
| Colour | Light gray. |
| Odour | None. |
| Odour Threshold | Not determined. |
| pH: | 6-8 (Emulsion) |
| Melting point/ freezing point: | Not determined. |
| Boiling point or initial boiling point / range: | Not determined. |
| Flash point: | does not ignite |
| Evaporation Rate: | Not determined. |
| Flammability: | Not determined. |
| Lower and upper explosion limit: | Not determined. |
| Vapour pressure: | Not determined. |
| Relative vapour density: | Not determined. |
| Density and/or relative density: | 2.4 g/cm ³ |
| Water solubility: | dispersible |
| Partition coefficient n-octanol/water (log value): | Not determined. |
| Auto-ignition temperature: | Not determined. |
| Decomposition temperature: | Not determined. |
| Kinematic viscosity: | Not determined. |
| Explosive properties: | not hazardous |
| Oxidising properties: | None |

9.2. Other information

| | |
|--|---------------------------|
| Suitable solvents | practically insoluble. |
| General Product Characteristics | No information available. |

SECTION 10: Stability and reactivity

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|---|---|
| 10.1. Reactivity | No information available. |
| 10.2. Chemical stability | No decomposition if used as directed. |
| 10.3. Possibility of hazardous reactions | No information available. |
| 10.4. Conditions to avoid | Avoid dust accumulation in enclosed space. To avoid thermal decomposition, do not overheat. |
| 10.5. Incompatible materials | Light metals. Strong acids. |
| 10.6. Hazardous decomposition products | None under normal use. |

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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| Acute toxicity | Sodium carbonate (CAS 497-19-8) Dermal LD50 Rabbit > 2000 mg/kg (ECHA_API) Inhalation LC50 Rat = 2300 mg/m ³ 2 h(ECHA_API) Oral LD50 Rat = 4090 mg/kg (NLM_HSDB) Bentonite (CAS 1302-78-9) Oral LD50 Rat > 5000 mg/kg (IUCLID) Calcium carbonate (CAS 471-34-1) Dermal LD50 Rat > 2000 mg/kg (ECHA_API) Inhalation LC50 Rat > 3 mg/L 4 h(ECHA_API) Oral LD50 Rat = 6450 mg/kg (NLM_CIP) |
| Skin corrosion/irritation | May irritate skin. |
| Serious eye damage/eye irritation | Causes serious eye damage. |
| Respiratory / Skin Sensitisation | None. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (single exposure) | No data available. |
| Specific target organ toxicity (repeated exposure) | No data available. |
| Aspiration hazard | No data available. |
| Human experience | This product has no known adverse effect on human health. Exposure may result in reddening, tearing and itching of the eyes and soreness in the nose and throat, together with coughing. Dust safety masks are recommended when the dust concentration is more than 10 mg/m ³ . |

SECTION 12: Ecological information

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| 12.1. Toxicity | This product has no known eco-toxicological effects. |
| Sodium carbonate (CAS 497-19-8) Ecotoxicity - Freshwater Fish - Acute Toxicity Data Ecotoxicity - Water Flea - Acute Toxicity Data Bentonite (CAS 1302-78-9) Ecotoxicity - Freshwater Fish - Acute Toxicity Data | LC50 96 h <i>Lepomis macrochirus</i> 300 mg/L [static] (EPA) LC50 96 h <i>Pimephales promelas</i> 310 - 1220 mg/L [static] (EPA) EC50 48 h <i>Daphnia magna</i> 265 mg/L (IUCLID) LC50 96 h <i>Oncorhynchus mykiss</i> 19000 mg/L [static] (EPA) |
| 12.2. Persistence and | Pigments are practically not biodegradable. |



degradability

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| 12.3. Bioaccumulative potential | Does not bioaccumulate. |
| 12.4. Mobility in soil | The product is insoluble and sinks in water. |
| 12.5. Results of PBT and vPvB assessment | No information available. |
| 12.6. Other adverse effects | No information available. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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| Waste from residues / unused products | Taking into account local regulations the product may be disposed of as waste water after neutralisation. EWC waste disposal No: 19 08 14. |
| Contaminated packaging | Offer rinsed packaging material to local recycling facilities. |

SECTION 14: Transport information

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| ADR/RID | Not regulated. |
| IMDG | Not regulated. |
| IATA | Not regulated. |
| Further Information | Not classified as dangerous in the meaning of transport regulations. |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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| Regulatory Information | The product is classified and labelled according to Regulation (EC) No. 1272/2008. |
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Aluminum sulfate (CAS 17927-65-0)

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| TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors | Present |
|---|---------|

Sodium carbonate (CAS 497-19-8)

| | |
|--|------------------------------|
| EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | Use restricted. See item 75. |
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| EU - REACH (1907/2006) - List of Registered Intermediates | Present ([207-838-8]) |
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| | |
|--|---------|
| EU - REACH (1907/2006) - List of Registered Substances | Present |
|--|---------|

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|---|--|
| Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS | Reg. no. 222, hazard class 1 - slightly hazardous to water (footnote 1) |
| Bentonite (CAS 1302-78-9) | |
| EU - Biocides (528/2012) - Annex I - Active Substances - Simplified Procedure | Category 7 ([215-108-5]) |
| EU - Plant Protection Products (1107/2009/EC) - Active Substances | Clayed charcoal shall be used in accordance with the specific conditions included in the conclusions of the review report on clayed charcoal (SANTE/11267/2016) and in particular Appendices I and II thereof (listed under part C, Clayed charcoal) |
| Calcium carbonate (CAS 471-34-1) | |
| Switzerland - Plant Protection Products | Wild Animal Repellant Insecticide |
| EU - Plant Protection Products (1107/2009/EC) - Active Substances | The conclusions of the renewal report on Calcium carbonate, and in particular Appendices I and II thereto, shall be taken into account (Commission Implementing Regulation 2021/1448/EU, listed under part D) |
| EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | Use restricted. See item 75. |
| EU - REACH (1907/2006) - List of Registered Substances | Present |
| Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS | Reg. no. 317, non-hazardous to water |
| 15.2. Chemical safety assessment | Not required. |

SECTION 16: Other information

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| Revision Note | Safety datasheet sections which have been updated: 1. |
| Key or legend to abbreviations and acronyms | CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) EWC: European Waste catalogue code |
| Key literature references and sources for data | Sources of key data used to compile the Safety Data Sheet: REACH, ECHA. |
| Classification procedure | Calculation method. |
| Full text of phrases referred to under sections 2 and 3 | H318: Causes serious eye damage. H319: Causes serious eye irritation. |
| Instructions for use | Restricted to professional users. |



Disclaimer

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