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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier DumaCO2®, CO2 adsorber tube, filled with adsorbent and sealed gas tight Article number: 14-0021 1.2 Relevant identified uses of the substance or mixture and uses advised against 1.2.1 Relevant uses See product information. 1.2.2 Uses advised against None known. 1.3 Details of the supplier of the safety data sheet Company C. Gerhardt GmbH & Co. KG Cäsariusstraße 97 53639 Königswinter / GERMANY Phone +49 (0)2223 2999 - 0 Fax +49 (0)2223 2999 - 99 Homepage www.gerhardt.de E-mail info@gerhardt.de Address enquiries to Technical information info@gerhardt.de Safety Data Sheet sdb@chemiebuero.de 1.4 **Emergency telephone number** Company +49 (0) 2223 2999-0 Mo-Fr 8:00 - 16:00 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008] No classification. 2.2 Label elements The product does not require a hazard warning label in accordance with regulation (EC) No 1272/2008 (CLP). Hazard pictograms none Signal word none Hazard statements none **Precautionary statements** none 2.3 Other hazards **Environmental hazards** Does not contain any PBT or vPvB substances. Other hazards Further hazards were not determined with the current level of knowledge. SECTION 3: Composition / Information on ingredients 3.1 Substances not applicable 3.2 Mixtures The product is a mixture. Comment on component parts No dangerous components. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.



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#### SECTION 4: First aid measures

SECTION 5: Fire-fighting measures

4.

| 1 | Description of first aid measures |   |
|---|-----------------------------------|---|
|   | General information               | Change powdered clothing.   |
|   | Inhalation                        | Ensure supply of fresh air.   |
|   | Skin contact                      | In case of contact with skin wash off with warm water.<br>Consult a doctor if skin irritation persists.   |
|   | Eye contact                       | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
|   | Ingestion                         | Rinse out mouth and give plenty of water to drink.<br>Do not induce vomiting.<br>Get medical advice.  |

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Extinguishing media 5.1 Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered. Extinguishing media that must not Full water jet. be used Special hazards arising from the substance or mixture 5.2 none 5.3 Advice for firefighters Use self-contained breathing apparatus. Fire residues must be disposed of in accordance within the local regulations. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment (protective gloves). Ensure adequate ventilation. **Environmental precautions** 6.2 Do not discharge into the drains/surface waters/groundwater. Methods and material for containment and cleaning up 6.3 Take up mechanically. Avoid production of dust. Dispose of absorbed material in accordance within the regulations. Reference to other sections 6.4 See SECTION 8+13



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# SECTION 7: Handling and storage 7.1 Precautions for safe handling Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off contaminated clothing and wash before reuse. 7.2 Conditions for safe storage, including any incompatibilities Keep only in original container. Do not store together with food and animal food/diet. Store in a dry place. Keep container tightly closed. 7.3 Specific end use(s) See product use, SECTION 1.2 SECTION 8: Exposure controls / personal protection **Control parameters** 8.1

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

#### 8.2 Exposure controls

| Additional advice on system design                             | Ensure adequate ventilation on workstation.<br>Pay attention to dust limit value (ACGIH-2011: 10 mg/m <sup>3</sup> particle inhalable; 3 mg/m <sup>3</sup> particle respirable).   |
|--|--|
| Eye protection   | Safety glasses. (EN 166:2001)  |
| Hand protection  | In full contact:<br>0,7 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).<br>The details concerned are recommendations. Please contact the glove supplier for further<br>information. |
| Skin protection  | Light protective clothing.   |
| Other  | Avoid contact with eyes and skin.<br>Do not inhale dust.   |
| Respiratory protection   | Respiratory protection in the case of dust formation.<br>Use Safety mask. (DIN EN 149)   |
| Thermal hazards  | No information available.  |
| Delimitation and monitoring of the<br>environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions.  |

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9.

**SECTION 9: Physical and chemical properties** 

| .1 | Information on basic physical and       | I chemical properties     |
|----|---|---------------------------|
|    | Physical state                          | pearls                    |
|    | Color                                   | white                     |
|    | Odor                                    | odourless                 |
|    | Odour threshold                         | not applicable            |
|    | pH-value                                | not determined            |
|    | pH-value [1%]                           | not determined            |
|    | Boiling point [°C]                      | not applicable            |
|    | Flash point [°C]                        | not applicable            |
|    | Flammability (solid, gas) [°C]          | not applicable            |
|    | Lower explosion limit                   | not applicable            |
|    | Upper explosion limit                   | not applicable            |
|    | Oxidising properties                    | no                        |
|    | Vapour pressure/gas pressure [kPa]      | not applicable            |
|    | Density [g/ml]                          | not determined            |
|    | Bulk density [kg/m³]                    | not determined            |
|    | Solubility in water                     | not determined            |
|    | Solubility other solvents               | not applicable            |
|    | Partition coefficient [n-octanol/water] | not determined            |
|    | Kinematic viscosity                     | not applicable            |
|    | Relative vapour density                 | not applicable            |
|    | Evaporation speed                       | not applicable            |
|    | Melting point [°C]                      | not determined            |
|    | Auto-ignition temperature               | not self-igniting         |
|    | Decomposition temperature [°C]          | not determined            |
|    | Particle characteristics                | No information available. |
| _  |   |                           |

#### 9.2 Other information

none

#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No hazardous reactions known.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

Reacts with water: generation of heat.



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## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

| 0  |  |
|--|--|
| Acute oral toxicity                                |  |
| Acute dermal toxicity                              |  |
| Acute inhalational toxicity                        |  |
| Serious eye damage/irritation                      | Based on the available information, the classification criteria are not fulfilled.   |
| Skin corrosion/irritation                          | Based on the available information, the classification criteria are not fulfilled.   |
| Respiratory or skin sensitisation                  | Based on the available information, the classification criteria are not fulfilled.   |
| Specific target organ toxicity — single exposure   | Based on the available information, the classification criteria are not fulfilled.   |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled.   |
| Mutagenicity                                       | Based on the available information, the classification criteria are not fulfilled.<br>Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity                              | Based on the available information, the classification criteria are not fulfilled.   |
| Carcinogenicity                                    | Based on the available information, the classification criteria are not fulfilled.   |
| Aspiration hazard                                  |  |
| General remarks                                    |  |

Toxicological data of complete product are not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

#### 12.2 Persistence and degradability

| Behaviour in environment<br>compartments | No information available. |
|--|---------------------------|
| Behaviour in sewage plant                | No information available. |
| Biological degradability                 | No information available. |

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage. Ecological data of complete product are not available.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

|      | Product                                   |  |
|------|---|--|
|      |   | Coordinate disposal with the authorities if necessary.                 |
|      | Waste no. (recommended)                   | 101299   |
|      | Contaminated packaging                    |  |
|      |   | Packaging that cannot be cleaned should be disposed of as for product. |
|      | Waste no. (recommended)                   | 150102   |
| SEC  | TION 14: Transport information            |  |
| 14.1 | UN number or ID number                    |  |
|      | Transport by land according to<br>ADR/RID | not applicable   |
|      | Inland navigation (ADN)                   | not applicable   |
|      | Marine transport in accordance with IMDG  | not applicable   |
|      | Air transport in accordance with IATA     | not applicable   |
| 14.2 | UN proper shipping name                   |  |
|      | Transport by land according to<br>ADR/RID | NO DANGEROUS GOODS   |
|      | Inland navigation (ADN)                   | NO DANGEROUS GOODS   |
|      | Marine transport in accordance with IMDG  | NOT CLASSIFIED AS "DANGEROUS GOODS"                                    |
|      | Air transport in accordance with IATA     | NOT CLASSIFIED AS "DANGEROUS GOODS"                                    |
| 14.3 | Transport hazard class(es)                |  |
|      | Transport by land according to<br>ADR/RID | not applicable   |
|      | Inland navigation (ADN)                   | not applicable   |
|      | Marine transport in accordance with IMDG  | not applicable   |
|      |   |  |

Air transport in accordance with IATA not applicable



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|--|------------------------------------|------------|
|  |                                    |            |

| 14.4 | Packing group<br>Transport by land according to<br>ADR/RID | not applicable |
|------|--|----------------|
|      | Inland navigation (ADN)                                    | not applicable |
|      | Marine transport in accordance with IMDG                   | not applicable |
|      | Air transport in accordance with IATA                      | not applicable |
| 14.5 | Environmental hazards                                      |                |
|      | Transport by land according to<br>ADR/RID                  | no             |
|      | Inland navigation (ADN)                                    | no             |
|      | Marine transport in accordance with IMDG                   | no             |
|      | Air transport in accordance with IATA                      | no             |
| 14.6 | Special precautions for user                               |                |

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

| Safety, health and environmental regulations/legislation specific for the substance or mixture |  |
|--|--|
| EEC-REGULATIONS  | 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014 |
| TRANSPORT-REGULATIONS  | ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)   |
| NATIONAL REGULATIONS (GB):   | EH40/2005 Workplace exposure limits (Second edition, published December 2011).   |
| - Observe employment restrictions<br>for people  | none   |
| - VOC (2010/75/CE)   | 0 %  |
| Chemical safety assessment   |  |
| 1  | EEC-REGULATIONS<br>TRANSPORT-REGULATIONS<br>NATIONAL REGULATIONS (GB):<br>- Observe employment restrictions<br>for people<br>- VOC (2010/75/CE)                                  |

not applicable



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### SECTION 16: Other information

#### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

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

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

- DMEL = Derived Minimum Effect Level
- DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association

- IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

- LD50 = Median lethal dose
- LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

- TLV®STEL = Threshold limit value short-time exposure limit
- VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

#### 16.2 Other information

**Classification procedure** 

| Safety Data Sheet REACH(UK) (GB)  |   |
|---|---|
| DumaCO2®, CO2 adsorber tube, filled with adsorbent and sealed gas tight |   |
| Article number 14-0021  |   |
| C. Gerhardt GmbH & Co. KG   |   |
| 53639 Königswinter  |   |
|   | - |



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|--|---|------------|
|  |   |            |
| Modified position                            | SECTION 2 deleted: STOT SE 3  |            |
|  | SECTION 2 deleted: H335 May cause respiratory irritation.                     |            |
|  | SECTION 2 deleted: Skin Irrit. 2  |            |
|  | SECTION 2 deleted: H315 Causes skin irritation.                               |            |
|  | SECTION 2 deleted: Eye Irrit. 2   |            |
|  | SECTION 2 deleted: H319 Causes serious eye irritation.                        |            |
|  | SECTION 3 been added: No dangerous components.                                |            |
|  | SECTION 4 been added: Change powdered clothing.                               |            |
|  | SECTION 6 been added: Use personal protective equipment (protective gloves).  |            |
|  | SECTION 7 been added: Avoid contact with eyes and skin.                       |            |
|  | SECTION 7 been added: Store in a dry place.                                   |            |
|  | SECTION 7 been added: Do not store together with food and animal food/diet.   |            |
|  | SECTION 8 been added: In full contact:  |            |
|  | SECTION 8 been added: Use Safety mask. (DIN EN 149)                           |            |
|  | SECTION 10 been added: Reacts with water: generation of heat.                 |            |
|  | SECTION 11 deleted: May cause respiratory irritation.                         |            |
|  | SECTION 11 deleted: Irritant  |            |
|  | SECTION 12 been added: Ecological data of complete product are not available. |            |
|  | SECTION 15 been added: not hazardous for water, acc. AwSV of 18.04.2017       |            |



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