

DG Carbon Remover

Acc. to: 1907/2006/EG, 2015/830]

Issue, dated: 21. 03. 2016

Version EN:1.0;

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

1.1 Product identifier: DG Carbon Remover

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

Identified uses / uses advised against: Powerful water based , caustic solvent for removing carbon deposits.

1.3 Details of the supplier of the safety data sheet:

Distributor:

Duo Ghibli

ul. Światowida 6

71-726 Szczecin

Tel.: +48 606 362 590

E-mail address of the person responsible for data sheet: biuro@dgpc.pl

E-mail address of the person responsible for data sheet: info@spin-doradztwo.pl

1.4 Emergency telephone number: 61 670 77 17 – hours: 8.00 – 16.00

112 (general emergency telephone number), 998 (fire-brigade), 999 (ambulance);

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Acc. to 1272/2008

Skin Irr.2; H315

Eye Dam.1; H318

Human health dangers:

Causes serious eye damage. Causes skin irritation.

Environmental hazards:

None.

Physic-chemical hazards:

None.

2.2 Label elements:

Pictograms:



Signal Word: Danger

Hazard Statement:

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

Precautionary Statement:

P102 – Keep out of reach of children

P280 – Wear protective gloves/protective clothing/eye protection/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/doctor

P332+P313 – If skin irritation occurs: Get medical advice/attention

Contain:

Alkylbenzenesulfonic acid (CAS: 85117-49-3);

Alcohols, C9-11, ethoxylated (CAS: 68439-46-3)

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According to Regulation (EC) No 648/2004

Contains: 5-15% nonionic surfactants, <5% anionic surfactants, perfumes

2.3 Other hazards:

Mixture doesn't meet the criteria for PBT or vPvB

SECTION 3: Composition/information on ingredients**3.1 Substances:**

Not applicable.

3.2 Mixtures:

Hazardous components:

| Product identifier | Contains [%] | Classification | |
|--|--------------|---|------------------------------|
| | | Hazard Class and Category Code(s) | Hazard Statement Code(s) |
| Potassium hydroxide, caustic potash CAS: 1310-58-3 EC: 215-181-3 Index number: 019-002-00-8 <u>REACH number</u> : the substance is subject to the transient period regulations | <2 | Skin Corr. 1A Acute Tox.4 | H290 H314 H302 |
| Alcohols, C9-11, ethoxylated CAS No.: 68439-46-3 EC No.: - Index No.: - <u>REACH No.</u> : - | 1 – 2 | Acute Tox.4 Eye Dam.1 | H302 H318 |
| Orange terpenes CAS No.: 8028-48-6 EC No.: 232-433-8 Index No.: - <u>REACH No.</u> : - | 1 – 2 | Flam. Liq.3 Asp.Tox.1 Skin Irrit.2 Aquatic Chronic 3 | H226 H304 H315 H412 |
| Butyleneglycol CAS No.: 110-63-4 EC No.: 203-786-5 Index No.: - <u>REACH No.</u> : - | 3 – 6 | Acute Tox.4 | H302 |

Additional information: For full text of H-statements: see SECTION 16

SECTION 4: First aid measures**4.1 Description of first aid measures:****Skin contact:**

Remove contaminated clothing, wash affected skin with soap and water, rinse thoroughly with water in case of irritation, consult a doctor.

Eye contact:

Rinse for several minutes (about 15) with plenty of water, holding eyelids apart. Avoid strong stream, due to the risk of corneal damage, contact your doctor.

Inhalation:

In the event of dizziness or nausea, remove casualty to fresh air, if symptoms persist, obtain medical advice.

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Ingestion:

Do not induce vomiting, drink plenty of water, rinse your mouth with water, immediately contact your doctor.

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

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye damage.

Respiratory: may cause irritation of mucous membranes of the respiratory system.

Gastrointestinal tract: Ingestion may cause irritation of the mucous membranes of mouth, gastrointestinal tract.

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

The decision about how to conduct the physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media: foam, dry powder extinguishers, CO₂, water spray. Use appropriate extinguishing method for conditions.

Unsuitable extinguishing media: Water with full jet

5.2 Special hazards arising from the substance or mixture:

During a fire, high temperature, release toxic decomposition products (carbon oxides).

5.3 Advice for firefighters:

Cool containers with water spray, if possible remove from the danger zone. In the event of a fire in a confined space should wear protective clothing and breathing apparatus with compressed air. Do not allow fire-fighting water run-off into surface water, groundwater and sewer.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: notify the appropriate service. Remove from the hazardous area who does not participate in liquidation of failure.

For emergency responders: Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Prevent from spreading or escaping into drains and reservoirs.

6.3 Methods and material for containment and cleaning up

Prevent leakage and absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). The contaminated material is placed in properly labeled containers for disposal in accordance with applicable regulations.

6.4 Reference to other sections

Disposal considerations – see section 13.

Personal precautions – see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Avoid contact with eyes. Avoid contact with skin. Work in accordance with the principles of safety and hygiene: Do not eat, drink and smoke at work, wash your hands after use, remove contaminated clothing and protective equipment before entering places for meals. Follow the instructions provided on the label and instructions for use.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place in properly labeled and tightly closed original container. Avoid direct sunlight and heat sources, hot surfaces and open flames. Store away from strong alkalis and oxidizing agents (containing sodium hypochlorite).

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7.3 Specific end use(s): Powerful water based , caustic solvent for removing carbon deposits.

SECTION 8: Exposure controls/personal protection
8.1 CONTROL PARAMETERS:

Occupational exposure limits according to Regulation of the Minister of Employment and Social Policy on maximum permissible concentration and intensity of harmful factors in work environment (Journal of Laws, No 217, item 1883, as amended).

Ingredients for whom the limits are legally binding:

| Name / type of a compound | MAC | STEL | CL |
|---------------------------|-------|------|----|
| | mg/m3 | | |
| Potassium hydroxide | 0.5 | 1 | - |
| 2-butoxyethanol | 98 | 200 | - |

8.2 Exposure controls:

Appropriate engineering controls: general ventilation of the storage room is recommended.

Individual protection measures, such as personal protective equipment:


Eye/face protection:

Use safety glasses or a safety face shield consistent with EN 166.

Skin protection:
Hand protection:

Wear appropriate chemical-protective gloves, made of acrylonitrile-butadiene rubber latex, natural rubber or PVC, in accordance with EN-PN 374:2005.

Glove material:

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. The resistance of glove material can only be specified following tests. A precise breakthrough time for any gloves should be provided by the manufacturer.

Other:

Wear suitable protective clothes (in accordance with EN 344) – which should be washed regularly.

Respiratory protection:

Avoid inhaling the product vapours.

Thermal hazards:

Not applicable.

Environmental exposure controls

Prevent dispersal of the product in the environment. Keep product from entering drains and waterways.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties:

| | |
|------------|--------|
| Appearance | Liquid |
| Color | orange |

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| Odour | Characteristic |
|---|------------------------------|
| Odour threshold | not determined |
| pH | 8,5 |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | not determined |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability | not determined |
| Lower flammability or explosive limits | not determined |
| Upper flammability or explosive limits | not determined |
| Vapour pressure | not determined |
| Vapour density | not determined |
| Density | 1,01g/cm ³ |
| Solubility(ies) | In water: completely soluble |
| Partition coefficient: n-octanol/water | not determined |
| Self-ignition temperature | not determined |
| Decomposition temperature | not determined |
| Viscosity; | not determined |
| Explosive properties | not explosive |
| Oxidizing properties | not determined |

9.2 Other information:

None.

SECTION 10: Stability and reactivity
10.1 Reactivity

No information available.

10.2 Chemical stability:

Stable under normal conditions of use, storage and transport.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid:

Avoid direct sunlight, heat, open flames, hot surfaces.

10.5 Incompatible materials:

No information available.

10.6 Hazardous decomposition products:

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Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

a) Acute toxicity: none

potassium hydroxide:

LD50 (oral, rat) 273 mg/kg

fatty alcohol ethoxylate

LD50 (oral, rat) 300- 2000 mg/kg

2-butoxyethanol

LD (skin)-490 mg/kg, (oral)-560 mg/kg

11.2 Contact with eyes

May cause severe irritation

Can cause damage to the eyes

11.3 Contact with skin

Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

11.4 Ingestion

No effects for small dosage. Large dose effects not known

May cause gastro-intestinal disturbances

11.5 Inhalation

In cases of severe exposure, irritation may develop

SECTION 12: Ecological information

No thorough tests on the effect of the mixture on the environment have been conducted. The mixture does not contain ingredients classified as hazardous for the environment

12.1 Toxicity:

LC50 (fish) (Fatty alcohol ethoxylate) 1-10 mg/l (96 hr)

12.2 Persistence and degradability:

The components in this product are readily biodegradable.

12.3 Bioaccumulative potential:

Bioaccumulation of the components in this product is insignificant.

12.4 Mobility in soil:

Fully soluble in water.

12.5 Results of PBT and vPvB assessment:

Not a PBT according to REACH Annex XIII.

12.6 Other adverse effects:

No environmental damage are expected when the product is used and/ stored correctly.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of waste should be addressed by specialized companies, the manner of waste disposal to be agreed with the competent department of environmental terrain. The residue was stored in their original containers. Dispose of in accordance with applicable regulations.

Empty containers should be disposed of in accordance with applicable regulations or to provide to the appropriate landfill.

EU REGULATIONS

Directive 75/442/EEC on waste, Council Directive 91/689/EEC of 12 December 1991 on hazardous waste, Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste

SECTION 14: Transport information

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ADR/RID/IMDG/IATA:

14.1 UN number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

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

EU REGULATIONS:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).
4. Commission Directive 2006/8/EC of 23 January 2006 amending, for the purposes of their adaptation to technical progress, Annexes II, III and V to Directive 1999/45/EC of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations (Text with EEA relevance).

15.2 Chemical safety assessment: No chemical safety assessments for the mixture.

SECTION 16: Other information

Abbreviations and acronyms, list of hazard statements used in the safety data sheet:

H226 – Flammable liquid and vapour

H302 – Harmful if swallowed

H304 – Połknięcie i dostanie się przez drogi oddechowe może grozić śmiercią

H314 – Causes severe skin burns and eye damage

H315 – Causes skin irritation

H318 – Causes serious eye damage

H319 – Causes serious eye irritation

H412 – Harmful to aquatic life with long lasting effects

Flam. Liq.3 – Flammable liquid cat. 3

Acute Tox.4 – Acute toxicity cat. 4

Asp. Tox. 1 – Aspiration hazard cat. 1

Skin Corr. 1B – Skin corrosion cat. 1B

Skin Irrit.2 – Skin irritation cat. 2

Eye Dam.1 – Serious eye damage cat. 1

Eye Irrit.2 – Eye irritation cat. 2

Aquatic Chronic 3 – Hazardous to the aquatic environment cat. 3

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PBT – Persistent, Bioaccumulative and Toxic

vPvB – very Persistent and very Bioaccumulative

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulation Concerning the International Transport of Dangerous Goods by Rail

IMDG – International Maritime Code for Dangerous Goods

IATA – International Air Transport Association

Training:

This product can be used by workers who have been thoroughly trained in the method of use of this product, they have been informed about the hazardous properties of the product and of the conditions of safe use of this product.

Method of classification: calculation method

RESOURCES

Annex to Regulation (EU) 2015/830.

Current legislation (Section 15).

Information Agency for Chemical Substances.

The information contained herein should be considered only as an aid for the safe use of **DG Carbon Remover**. Since the conditions of storage, transport and use are beyond our control, can not constitute a guarantee in the legal sense. In any case, you must observe the laws and any third party rights. The document does not estimate the risks in the workplace. Product should not be used for purposes other than those specified in Section 1 without first consulting with **Duo Ghibli Szczecin**.