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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 10/21/2010

Version: 4

Reviewed on 10/20/2010

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

- **Product details**
- **Trade name:** Carbona Service –it Washing Machine Cleaner
- **Formulation-no.:** 004-08
- **Application of the substance / the preparation:** Special cleaning agent
- **Manufacturer/Supplier:**
d e l t a p r o n a t u r a
Dr. Krauss & Dr. Beckmann KG
Kurt-Schumacher-Ring 15-17
63329 Egelsbach
Germany

Telefon: int+49-(0)6103-4045-0
Fax: int+49-(0)6103-4045-190
- **Distributor:**
Delta Carbona L.P.
376 Hollywood Ave., Suite 208
Fairfield, NJ 07004
telephone: (973)808-6260
fax: (973)8008-5661
- **Information department:** see supplier or distributor
- **Emergency information:** Emergency toll free 1 888 746 5599

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
 - **Information concerning particular hazards for human and environment:**
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
 - **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded using company data and specialized literature.
-
- **Label elements**
 - **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals
Although this product is not subject to identification regulations, we recommend to observe the safety suggestions.
 - **Safety phrases:**
Caution!
Keep out of the reach of children.
 - **Classification system**
 - **NFPA ratings (scale 0-4)**



Health = 1
Fire = 0
Reactivity = 0



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3 Composition/information on ingredients

• **Chemical characterization**

• **Description:** Solution of special active agents

• **Dangerous components:**

CAS: 5949-29-1 citric acid, monohydrate 5-10%
RTECS: GE 7350000

CAS: 56-81-5 glycerol < 2.5%
RTECS: MA 8050000

CAS: 68439-46-3 Alcohols, C9-11, ethoxylated < 2.5%

• **TSCA**

All components are listed.
void

4 First aid measures

• **General information:** If symptoms persist or in case of doubt seek medical advice.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Wash with water.

If skin irritation continues, consult a doctor.

• **After eye contact:**

Rinse the eyes with open eyelids for 10 - 15 minutes with water.

If symptoms persist, consult a doctor.

• **After swallowing:**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

If babies/toddlers are concerned, always consult a physician or the local Poison Information Centre.

• **Information for doctor:**

• **Treatment:** Symptomatic treatment

5 Firefighting measures

• **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

• **Special hazards caused by the material, its products of combustion or resulting gases:**

Dangerous decomposition products see chapter 10: stability and reactivity

• **Protective equipment:**

Wear self-contained respiratory protective device.

Wear chemical protective clothing

• **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

• **Person-related safety precautions:**

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

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· **Measures for environmental protection:**

The following information refer to the leakage of large quantities:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.

· **Measures for cleaning/collecting:**

Small quantities:
If spilled/leaked: absorb main quantity with cloth.
Dam up larger quantities and pump into containers.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Clean the affected area carefully; suitable cleaners are:
warm water
Send for recovery or disposal in suitable receptacles.

· **Additional information:** See Section 8 for information on personal protection equipment.

7 Handling and storage

· **Handling**

· **Information for safe handling:** No special precautions are necessary if used correctly.
· **Information about protection against explosions and fires:** No special measures required.

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Not required
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from feed.
· **Further information about storage conditions:** Protect from frost.
· **Storage class:** 12 Non combustible liquids (VCI).

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

56-81-5 glycerol

PEL 15* 5** mg/m³
*total dust **respirable fraction
TLV 10* ppm
*Mist

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
The following instructions regarding the protective equipment refer to the industrial use of larger quantities.
Use skin protection cream for skin protection.
All protective equipment used shall be according to 29 CFR.1910 Subpart I Personal Protective Equipment

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

At longer contact: protective gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves:**

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.

· **Penetration time of glove material:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Fluid

Color: Blue

· **Odor:** scented
citrus-like

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

· **Flash point:** Not applicable

· **Self ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C (68°F):** 1.04 g/cm³ (8.679 lbs/gal)

· **Solubility in / Miscibility with Water:** Miscible

· **pH-value at 20°C (68°F):** 1.7
in delivery state

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

To avoid thermal decomposition do not overheat.

· **Dangerous products of decomposition:**

In the case of fire or at high temperatures the formation of the following decomposition products is possible:

Carbon monoxide and carbon dioxide

Irritant gases/vapors

11 Toxicological information

· **Acute toxicity**

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

No toxicity data are available for the product itself.

Due to the composition no relevant toxicity is expected.

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

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- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information**
The product is not subject to classification according to internally approved calculation methods for preparations.
Based on corresponding tests no classification as "irritant" or "corrosive" is required in spite of the low pH-value of < 2.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product has not been tested.
- **Behavior in environmental systems**
- **Mobility and bioaccumulation potential:** The product has not been tested.
- **Ecotoxicological effects**
- **Aquatic toxicity:** Presently there are no ecotoxicological values available.
- **Remark:** Due to the low pH-value there may be toxic effects on aquatic organisms.
- **Additional ecological information:**
- **General notes:**
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 decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- **Product**
- **Recommendation:**



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

Disposal according to instructions of local authorities.

- **Uncleaned packagings**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations**
- **Hazard class:** No hazardous material according to the regulations
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** No hazardous material according to the regulations
- **Maritime transport IMDG**
- **IMDG Class:** No hazardous material according to the regulations
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR**
- **ICAO/IATA Class:** No hazardous material according to the regulation

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15 Regulatory information

- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency)**
void
- **IARC (International Agency for Research on Cancer)**
5989-27-5 D-Limonene: 3
91-64-5 Coumarin: 3
- **NTP (National Toxicology Program)**
void
- **TLV (Threshold Limit Value established by ACGIH)**
void
- **MAK (German Maximum Workplace Concentration)**
void
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
void
- **OSHA-Ca (Occupational Safety & Health Administration)**
void
- **Chemical safety assessment** A Chemical Safety Assessment has not been carried out.
- **Regulation or reporting requirements USA**
- **Sara section 355**
not listed
- **Sara section 313**
not listed
- **Prop. 65 - Cancer**
not listed

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
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Postfach 1451 D-64345 Griesheim

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