

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Δ·P·N

Reviewed on 04/08/2010

**1 Identification of substance**

- **Product details**
- **Trade name:** Carbona Clean It Refrigerator & Microwave Cleaner
- **Formulation-no.:** 29052007
- **Application of the substance / the preparation:** Special cleaning agent
- **Manufacturer/Supplier:**  
delta pronatura  
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**

- **Hazard description** not applicable
- **Information pertaining to particular dangers for man and environment**  
Flammable.
- **Classification system**  
The classification was made according to the latest editions of international substances lists, and expanded using company data and specialized literature.
- **NFPA ratings (scale 0-4)**



Health = 0  
Fire = 2  
Reactivity = 0

**\* 3 Composition/Data on components**

- **Chemical characterization**
  - **Description:** Solution of special active agents
  - **Dangerous components:**
- |                   |  |        |
|-------------------|--|--------|
| CAS: 64-17-5      | ethanol  | 5-10%  |
| RTECS: KQ 6300000 |  |        |
| CAS: 157627-86-6  | Alcohols, C13-15, branched and linear, ethoxylated | < 2.5% |
| CAS: 5989-27-5    | D-Limonene   | < 1%   |
| RTECS: GW 6360000 |  |        |
- **TSCA**  
All components are listed.



delta pronatura

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

ΑΧ·Α·Α } ΚΕΗ

Reviewed on 04/08/2010

**Trade name: Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 1)

#### 4 First aid measures

- **General information:** If symptoms persist or in case of doubt seek medical advice.
- **After inhalation:**  
Remove affected persons to fresh air and keep calm.  
If symptoms persist consult a doctor.
- **After skin contact:**  
Remove soiled clothes and shoes.  
Wash with water and soap.
- **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.  
Whether vomiting should be induced or not has to be decided by a doctor.  
Call a doctor immediately.
- **Information for doctor:**
- **Treatment:** Symptomatic treatment

#### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
Water spray  
Fire-extinguishing powder  
Carbon dioxide  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Dangerous decomposition products see chapter 10: stability and reactivity
- **Protective equipment:**  
Do not inhale combustion vapors.  
Wear self-contained respiratory protective device.
- **Additional information:**  
Cool endangered receptacles with water spray.  
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  
Wear protective clothing.  
Do not smoke - keep ignition sources away  
Use respiratory protective device against the effects of fumes/dust/aerosol.



Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)



delta pronatura

Page 3/8

## Material Safety Data Sheet acc. to ISO/DIS 11014

Version: 03

Reviewed on 04/08/2010

Trade name: **Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 2)

· **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.  
Do not allow to penetrate the ground/soil.

· **Measures for cleaning/collecting:**

Small quantities:  
If spilled/leaked: absorb main quantity with cloth.  
Large quantities:  
Absorb with non-combustible material like sand, soil, diatomite.  
Send for recovery or disposal in suitable receptacles.  
Dispose contaminated material as waste according to item 13.

· **Additional information:**

See Section 8 for information on personal protection equipment.  
See Section 7 for information on safe handling  
See Section 13 for disposal information.

### 7 Handling and storage

· **Handling**

· **Information for safe handling:** No special precautions are necessary if used correctly.

· **Information about protection against explosions and fires:**

Fumes can combine with air to form an explosive mixture.



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.  
Store receptacles tightly closed at a cool and dry place with sufficient ventilation  
Follow special local regulations for the storage of flammable liquids.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from feed.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Storage class:** 3 Flammable liquid

· **Specific applications** Please pay attention to the information on the label.

### \* 8 Exposure controls and 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:**

**64-17-5 ethanol**

PEL 1900 mg/m<sup>3</sup>, 1000 ppm

REL 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

(Contd. on page 4)

— USA —



delta pronatura

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Version: 03

Reviewed on 04/08/2010

**Trade name: Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 3)

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

The usual protective measures based on the application have to be followed.

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.

In case of unintentional release of substance, exceeding the occupational exposure limit value:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter A

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

· **Protection of hands:**

For consumers normally not necessary. If direct contact with product or its dilutions cannot be avoided use of protective gloves is recommended.

Industrial use:

Chemical resistant gloves

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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 through 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**

**Form:** Fluid  
**Color:** Light blue  
Clear  
**Odor:** Like alcohol

· **Change in condition**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** undetermined

· **Flash point:** 42°C (108°F)

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:** 3.5 Vol %

(Contd. on page 5)



delta pronatura

Page 5/8

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Version: 03

Reviewed on 04/08/2010

**Trade name: Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 4)

<b>Upper:</b>	15.0 Vol % (ethanol)
· <b>Density at 20°C (68°F):</b>	0.98 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Soluble
· <b>pH-value at 20°C (68°F):</b>	~ 6.0
· <b>Solvent content:</b>	
<b>VOC:</b>	101.1 g/l / 0.84 lb/gl

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
Heating may lead to bursting of receptacles.  
No decomposition if used and stored according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **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

## \* 11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **on the skin:** Repeated contact has a drying effect on the skin.
- **on the eye:** Light irritation possible.
- **Sensitization:** One component may cause allergic reactions.

## 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:** The product has not been tested.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Danger to drinking water is possible if large quantities leak into the ground or into water course.

— USA —  
(Contd. on page 6)



delta pronatura

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Version: 03

Reviewed on 04/08/2010

Trade name: **Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 5)

### 13 Disposal considerations

- **Product**
- **Recommendation:**  
Disposal according to instructions of local authorities.



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

None of main the ingredients is listed as material banned from land disposal according to RCRA.

RCRA Hazardous Waste No. (ethanol): D001

RQ: 100 lbs.

- **Uncleaned packagings**
- **Recommendation:** Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** water

### 14 Transport information

- **DOT regulations**
- **Hazard class:** 3
- **Identification number:** UN1170
- **Packing group:** III
- **Proper shipping name (technical name):** ETHANOL SOLUTION
- **Label:** 3
- **Remarks:** May also be shipped as "Consumer Commodity ORM-D"
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1170
- **Packaging group:** III
- **Label:** 3
- **Remarks:** Limited quantity: 5l per inner packaging, 30 kg gross per packaging unit
- **Maritime transport IMDG**
- **IMDG Class:** 3
- **UN Number:** 1170
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- **Air transport ICAO-TI and IATA-DGR**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1170
- **Label:** 3
- **Packaging group:** III
- **Propper shipping name:** ETHANOL SOLUTION

(Contd. on page 7)



delta pronatura

Page 7/8

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Version: 03

Reviewed on 04/08/2010

**Trade name: Carbona Clean It Refrigerator & Microwave Cleaner**

(Contd. of page 6)

- **Remarks:** Packing Instructions:  
For Limited Quantities: Y309 (Max Net Qty/Pkg: 10 l)  
Passenger and Cargo Aircraft: 309 (Max Net Qty/Pkg: 60 l)  
Cargo Aircraft only: 310(Max Net Qty/Pkg: 220 l)  
May also be shipped as "consumer commodity" ID 8000

**\*15 Regulations**

- **Carcinogen categories**
- **EPA (Environmental Protection Agency)**  
78-93-3 butanone: 1
- **IARC (International Agency for Research on Cancer)**  
5989-27-5 D-Limonene: 3  
67-63-0 propan-2-ol: 3
- **NTP (National Toxicology Program)**  
void
- **TLV (Threshold Limit Value established by ACGIH)**  
64-17-5 ethanol: A3  
67-63-0 propan-2-ol: A4
- **MAK (German Maximum Workplace Concentration)**  
64-17-5 ethanol: 5
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**  
void
- **OSHA-Ca (Occupational Safety & Health Administration)**  
void
- **Markings according to EU guidelines:**  
The product has been classified and marked in accordance with directives on hazardous materials.
- **Risk phrases:**  
Flammable.
- **Safety phrases:**  
Caution!  
Keep out of the reach of children.  
Keep away from sources of ignition - No smoking.  
If swallowed, seek medical advice immediately and show this container or label.  
Dispose of this material and its container at hazardous or special waste collection point
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **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.

(Contd. on page 8)

USA



delta pronatura

Page 8/8

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Printing date 04/15/2010

Reviewed on 04/08/2010

---

**Trade name: Carbona Clean It Refrigerator & Microwave Cleaner**

---

(Contd. of page 7)

· **Reasons for amendments:**

Change of trade name  
General revision

· **Department issuing MSDS:**

KFT-Chemieservice Marienstr. 3 D-64347 Griesheim  
Postfach 1451 D-64345 Griesheim

Tel.: +49-6155-823241 Fax: +49-6155-823246

· **Contact:** Angelika Torges

· \* **Data compared to the previous version altered.**

Changes have been made to chapters marked with a \*, as compared to the previous version.

---

— USA —