

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

- **Product details**
- **Trade name: CarboLith 111409 Komp. C (LL)**
- **Application of the substance / the preparation** Activator
- **Manufacturer/Supplier:**
Minova CarboTech GmbH
Am Technologiepark 1
45307 Essen
- **Further information obtainable from:**
++49 (0)201 172 -1358 /-1037 /-1914
info.de@minovaint.com
- **Information in case of emergency:** ++49 (0)201 - 172- 1049

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

CAS: 107-21-1	ethanediol	50-100%
EINECS: 203-473-3	Xn; R 22	

CAS: 80-70-6	1,1,3,3-tetramethylguanidine	2.5-10%
EINECS: 201-302-7	C, Xn; R 10-22-34	

CAS: 1704-62-7	2-(2-(Dimethylamino)ethoxy)ethanol	≤ 2.5%
EINECS: 216-940-1	C; R 34	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Call for a doctor immediately.

GB

(Contd. on page 2)

Trade name: CarboLith 111409 Komp. C (LL)

(Contd. of page 1)

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in dry conditions.
Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
 - **Ingredients with limit values that require monitoring at the workplace:**
- | | |
|----------------------------|--|
| 107-21-1 ethanediol | |
| WEL (Great Britain) | Short-term value: 104** mg/m ³ , 40** ppm
Long-term value: 10* 52** mg/m ³ , 20** ppm |
| | Sk *particulate **vapour |
| AGW (Germany) | Long-term value: 26 mg/m ³ , 10 ppm |
| | 2(I);DFG, H, Y |
- **Additional information:** The lists valid during the making were used as basis.
 - **Personal protective equipment:**
 - **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - **Respiratory protection:** Not required.
 - **Protection of hands:**
PVC or PE gloves



Protective gloves

(Contd. on page 3)

GB

Trade name: CarboLith 111409 Komp. C (LL)

(Contd. of page 2)

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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:



Tightly sealed goggles

9 Physical and chemical properties

General Information

Form: Fluid
Colour: Light brown
Odour: Amine-like

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 197 °C (387 °F)

Flash point: Not applicable.

Ignition temperature: 350 °C (662 °F)

Self-igniting: Product is not selfigniting.

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

Explosion limits:

Lower: 3.2 Vol %

Upper: 53.0 Vol %

Density at 20 °C (68 °F): 1.09 g/cm³

Solubility in / Miscibility with water:

Fully miscible.

pH-value at 20 °C (68 °F): 12.7

Viscosity:

Dynamic at 20 °C (68 °F): 11 mPas

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

(Contd. on page 4)

GB

Trade name: CarboLith 111409 Komp. C (LL)

(Contd. of page 3)

- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

107-21-1 ethanediol

Oral LD50 5840 mg/kg (Ratte)

Dermal LD50 9530 mg/kg (rbt)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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 increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, 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 together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

07 02 08 other still bottoms and reaction residues

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.

- **Danger code (Kemler):** 80

- **UN-Number:** 3267

- **Packaging group:** III

(Contd. on page 5)

GB

Trade name: CarboLith 111409 Komp. C (LL)

(Contd. of page 4)

- **Hazard label** 8
- **Description of goods:** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1,1,3,3-tetramethylguanidine)

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 3267
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1,1,3,3-tetramethylguanidine)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3267
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1,1,3,3-tetramethylguanidine)

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful

· **Hazard-determining components of labelling:**

ethanediol

· **Risk phrases:**

22 Harmful if swallowed.
36/38 Irritating to eyes and skin.

· **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 6)

GB

Trade name: CarboLith 111409 Komp. C (LL)

(Contd. of page 5)

- **National regulations:**
- **Technical instructions (air):**
- **Class Share in %**
- **Wasser 20.0**
NK 74.0
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

- **Relevant R-phrases**
10 Flammable.
22 Harmful if swallowed.
34 Causes burns.

GB