

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 09-Apr-2015

Print date: 05-Oct-2015

Version: 2 modifiziert

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

1.1. Product identifier

Trade name/designation:

TCE-Ceramic 610

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

Use of the substance/mixture:

Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Jost Chemicals GmbH

Gottlieb-Daimler-Str. 10

69514 Laudenbach

Germany

Telephone: 0049-6201-42810

Telefax: 0049-6201-45590

E-mail: info@jost-chemicals.de

Website: www.jost-chemicals.de

1.4. Emergency telephone number

R&D, Telefon auskunftgebender Bereich: 0049-(0)6201-42810, Notfallauskunft: R&D (Mo - Fr. 08.00 - 16.00 Uhr), 0049-(0)6201-42810 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS05
Corrosion

Signal word: Danger

Hazard components for labelling:

calcium dihydroxide

hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Supplemental Hazard information (EU): -

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Precautionary statements Prevention

P262	Do not get in eyes, on skin, or on clothing.
P264	Wash ... thoroughly after handling.
P280.2	Wear protective gloves and eye/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of u.s. substances and non-dangerous substances.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1305-62-0 EC No.: 215-137-3	calcium dihydroxide Eye Dam. 1, STOT SE 3, Skin Irrit. 2 Danger H315-H318-H335	15 - 25 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Special danger of slipping by leaking/spilling product.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Call a doctor.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation Irritation to respiratory tract

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray Foam

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Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide

Carbon dioxide (CO₂)

Sulphur dioxide (SO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special handling advices are necessary.

Fire prevent measures:

No special fire protection measures are necessary.

Measures to prevent aerosol and dust generation:

Use only in well-ventilated areas.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs, Oxidising agent

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7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	calcium dihydroxide CAS No.: 1305-62-0	① 1 mg/m ³ ② 2 mg/m ³ ⑤ (einatembare Fraktion)
IOELV (EU)	calcium dihydroxide CAS No.: 1305-62-0	① 5 mg/m ³
NL	calcium dihydroxide CAS No.: 1305-62-0	① 5 mg/m ³

8.1.2. biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn DIN EN 374 Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Paste

Colour: white

Odour: odourless

Safety relevant basis data

parameter		at °C	Method	Remark
pH	not determined			
Melting point/freezing point	not determined			
Freezing point	not determined			

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parameter		at °C	Method	Remark
Initial boiling point and boiling range	not determined			
Decomposition temperature (°C):	not determined			
Flash point	> 200 °C		Basisöl	
Evaporation rate	not determined			
Ignition temperature in °C	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	≈ 1.3 g/cm ³	20 °C		
Bulk density	not determined			
Water solubility (g/L)	not determined			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Oxidising agent, strong
Strong acid

10.6. Hazardous decomposition products

Thermal decomposition: HYDROGEN SULPHIDE

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
1305-62-0	calcium dihydroxide	LD ₅₀ oral: 7,340 mg/kg (Ratte)

Acute oral toxicity:

There are no data available on the preparation/mixture itself.

Skin corrosion/irritation:

Irritating to skin.

Eye damage/irritation:

Irritating to eyes.
Risk of serious damage to eyes.

STOT-single exposure:

May cause respiratory irritation.

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
1305-62-0	calcium dihydroxide	LC ₅₀ : 195 mg/l 4 d

Aquatic toxicity:

There are no data available on the preparation/mixture itself.

Terrestrial toxicity:

There are no data available on the preparation/mixture itself.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
1305-62-0	calcium dihydroxide	—

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.
not relevant
14.2. UN proper shipping name
not relevant
14.3. Transport hazard class(es)
not relevant
14.4. Packing group
not relevant
14.5. Environmental hazards
not relevant

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14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 **[DE] National regulations**

Restrictions of occupation

22 JArbSchG.

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Data arise from reference works and literature.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit.</i> 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam.</i> 1)	H318: Causes serious eye damage.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

16.6. Training advice

No data available

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16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.