1. Identification

Product identifier
Proguard CN-1M V15 H3 Part B

Recommended use of the chemical and restrictions on use

Use of the substance/mixture
Coatings and paints, fillers, putties, thinners

Uses advised against
No information available.

Details of the supplier of the safety data sheet

Company name: Ceramic Polymer GmbH
Street: Daimlerring 9
Place: DE-32289 Roedinghausen - Germany
Telephone: +49(0) 52 23 / 9 62 76-0
E-mail: info@ceramic-polymer.de
Internet: www.ceramic-polymer.de
Responsible Department: 
Importer: A.W. Chesterton Company
Street: 860 Salem Street, Groveland
Place: MA 01834-1507, USA
Telephone: Phone 978-469-6446
E-mail: info@ceramic-polymer.de
Internet: 

Emergency phone number: 24 hours per day, 7 days per week Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200
Hazard categories:
Flammable liquids: Flam. Liq. 4
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2
Hazard Statements:
Combustible liquid
Causes severe skin burns and eye damage
Causes serious eye damage
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure

Label elements

29 CFR Part 1910.1200
Signal word: Danger
Pictograms:

Hazard statements
Combustible liquid
Causes severe skin burns and eye damage
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 
Do not breathe dust/fume/gas/mist/vapors/spray. 
Contaminated work clothing must not be allowed out of the workplace. 
Wear protective gloves/protective clothing/eye protection/face protection. 
If swallowed: Rinse mouth. Do NOT induce vomiting. 
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 
If skin irritation or rash occurs: Get medical advice/attention. 
If inhaled: Remove person to fresh air and keep comfortable for breathing. 
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. 
Continue rinsing. 
Immediately call a poison center/doctor. 
Wash contaminated clothing before reuse. 
Store in a well-ventilated place. 
Store locked up. 
Dispose of waste according to applicable legislation.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamin</td>
<td>20 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylene(methylamine)</td>
<td>18 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>8.5 %</td>
</tr>
<tr>
<td>135108-88-2</td>
<td>Copolymer of benzenamine and formaldehyde, hydrogenated</td>
<td>3.3 %</td>
</tr>
<tr>
<td>113930-69-1</td>
<td>4,4’-Isopropylidinediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenyleneis(methylamine)</td>
<td>3.3 %</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td>2 %</td>
</tr>
<tr>
<td>919-30-2</td>
<td>3-aminopropyltriethoxysilane</td>
<td>1 %</td>
</tr>
<tr>
<td>1761-71-3</td>
<td>4,4’-methylenedis(cyclohexylamine)</td>
<td>0.5 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

General information

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

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. 
Do not wash with: Solvents/Thinner

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain
immediate medical attention.
Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**
No information available.

**Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.
After contact with skin, wash immediately with plenty of Lutrol.
Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
- Dry extinguishing powder
- Carbon dioxide (CO2)
- Alcohol resistant foam
- Water spray jet

**Unsuitable extinguishing media**
- High power water jet

**Specific hazards arising from the chemical**
- Carbon monoxide
- Carbon dioxide (CO2)
- Nitrogen oxides (NOx)

**Special protective equipment and precautions for fire-fighters**
- Special protective equipment for firefighters
- Protective clothing
- In case of fire: Wear self-contained breathing apparatus.
- Co-ordinate fire-fighting measures to the fire surroundings.

**Additional information**
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
- Use personal protection equipment.
- Provide adequate ventilation.
- Remove persons to safety.

**Environmental precautions**
- Do not allow to enter into surface water or drains. Cover drains.

**Methods and material for containment and cleaning up**
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**
- See protective measures under point 7 and 8.
- Disposal: see section 13

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling**
- Use personal protection equipment.
- Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**
- Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.
Advisory storage compatibility

Keep away from:
- Food and feedingstuffs
- Oxidising agent

Further information on storage conditions

Protect against:
- Frost
- Heat
- Humidity

8. Exposure controls/personal protection

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>2-Butanone (Methyl ethyl ketone)</td>
<td>200</td>
<td>590</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>200</td>
<td>590</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td>885</td>
<td></td>
<td>STEL (15 min)</td>
<td>REL</td>
</tr>
<tr>
<td>78-93-3</td>
<td>Methyl ethyl ketone</td>
<td>200</td>
<td></td>
<td></td>
<td>TWA (8 h)</td>
<td>ACGIH-2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>ACGIH-2016</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Xylene alpha,alphadi-amine</td>
<td></td>
<td></td>
<td>0.1</td>
<td>Peak</td>
<td>ACGIH-2016</td>
</tr>
</tbody>
</table>

Biological Exposure Indices (BEI-ACGIH)

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>Determinant</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>METHYL ETHYL KETONE</td>
<td>Methyl ethyl ketone</td>
<td>2 mg/L</td>
<td>urine</td>
<td>End of shift</td>
</tr>
</tbody>
</table>

Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Eye/face protection

Suitable eye protection:
- Eye glasses with side protection
- Goggles

Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Wear cotton undermitten if possible. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Skin protection
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Combination filtering device (EN 14387) A-P3
Self-contained respirator (breathing apparatus) (DIN EN 133)

Environmental exposure controls
Avoid release to the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odor:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method
pH-Value: ~11

Changes in the physical state
Melting point/freezing point: not determined
Initial boiling point and boiling range: not determined
Sublimation point: not determined
Softening point: not determined
Pour point: not determined
Flash point: > 65 °C

Flammability
Solid: not determined
Gas: not determined

Explosive properties
No information available.

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined

Auto-ignition temperature
Solid: not determined
Gas: not determined
Decomposition temperature: not determined

Oxidizing properties
No information available.

Vapor pressure: not determined
(at 25 °C)
Density (at 23 °C): ~1,06 g/cm³
Water solubility: partially soluble

Solubility in other solvents
No information available.
Partition coefficient: not determined
Viscosity / dynamic: ~1500 mPa·s (at 23 °C)
Vapor density: not determined
Evaporation rate: not determined

Other information
Odour threshold: not determined

10. Stability and reactivity

Reactivity
Combustible liquid.

Chemical stability
Stability: Stable
The substance is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions
Hazardous reactions: Will not occur
No hazardous reaction when handled and stored according to provisions.

Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Incompatible materials
Acid, Oxidising agent

Hazardous decomposition products
Does not decompose when used for intended uses. No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects
Route(s) of Entry
inhalative, dermal, Eye contact

Acute toxicity
Based on available data, the classification criteria are not met.
### Components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Source</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure route</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure route</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>Manufacturer</td>
<td>Rat</td>
<td>LD50 1030 mg/kg</td>
<td>oral</td>
<td>Manufacturer</td>
<td>ATE 1100 mg/kg</td>
<td>dermal</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>Manufacturer</td>
<td>Mouse</td>
<td>LD50 1180 mg/kg</td>
<td>oral</td>
<td>Manufacturer</td>
<td>ATE 11 mg/l</td>
<td>inhalative vapour</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>Manufacturer</td>
<td>Rat</td>
<td>LD50 &gt; 3100 mg/kg</td>
<td>oral</td>
<td>Manufacturer</td>
<td>ATE 11 mg/l</td>
<td>inhalative aerosol</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Manufacturer</td>
<td>Rat</td>
<td>LD50 1620 mg/kg</td>
<td>oral</td>
<td>Manufacturer</td>
<td>ATE 11 mg/l</td>
<td>inhalative vapour</td>
</tr>
<tr>
<td>135108-88-2</td>
<td>Supplier</td>
<td>Rat</td>
<td>LC50 1,34 mg/l</td>
<td>LC50</td>
<td>Supplier</td>
<td>ATE 1,5 mg/l</td>
<td>inhalative aerosol</td>
</tr>
<tr>
<td>78-93-3</td>
<td>IUCLID</td>
<td>Rat</td>
<td>LD50 3300 mg/kg</td>
<td>oral</td>
<td>IUCLID</td>
<td>ATE 500 mg/kg</td>
<td>inhalative vapour</td>
</tr>
<tr>
<td>919-30-2</td>
<td>Supplier</td>
<td>Rat</td>
<td>LD50 1780 mg/kg</td>
<td>oral</td>
<td>Supplier</td>
<td>ATE 500 mg/kg</td>
<td>inhalative aerosol</td>
</tr>
<tr>
<td>1761-71-3</td>
<td>RTECS</td>
<td>Rabbit</td>
<td>LD50 3800 mg/kg</td>
<td>oral</td>
<td>RTECS</td>
<td>ATE 500 mg/kg</td>
<td>inhalative aerosol</td>
</tr>
</tbody>
</table>

### Sensitizing effects
- Causes severe skin burns and eye damage

### Carcinogenic/mutagenic/toxic effects for reproduction
- Based on available data, the classification criteria are not met.

### Specific target organ toxicity (STOT) - single exposure
- Based on available data, the classification criteria are not met.

### Specific target organ toxicity (STOT) - repeated exposure
- May cause damage to organs through prolonged or repeated exposure

### Aspiration hazard
- Based on available data, the classification criteria are not met.
## 12. Ecological information

**Ecotoxicity**
- The product has not been tested.

**Persistence and degradability**
- The product has not been tested.

**Bioaccumulative potential**
- The product has not been tested.

**Mobility in soil**
- The product has not been tested.

**Other adverse effects**
- No information available.

## 13. Disposal considerations

**Waste treatment methods**

**Advice on disposal**
- Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**
- Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

## 14. Transport information

### US DOT 49 CFR 172.101
- **UN/ID number:** UN 2735
- **Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
- **Transport hazard class(es):** 8
- **Packing group:** II
- **Hazard label:** 8

### Marine transport (IMDG)
- **UN number:** UN 2735
- **UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
- **Transport hazard class(es):** 8
- **Packing group:** II
- **Hazard label:** 8
- **Limited quantity:** 1 L
- **Excepted quantity:** E2
- **EmS:** F-A, S-B
- **Segregation group:** 18 - alkalis

### Air transport (ICAO-TI/ATA-DGR)
- **UN number:** UN 2735
- **UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
- **Transport hazard class(es):** 8
- **Packing group:** II
- **Hazard label:** 8
Limited quantity Passenger: 0.5 L  
Passenger LOQ: Y840  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No information available.

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

No information available.

15. Regulatory information

U.S. Regulations

National Inventory TSCA
- 3-aminomethyl-3,5,5-trimethylcyclohexylamin: Yes.
- m-phenylenebis(methylamine): Yes.
- benzyl alcohol: Yes.
- Copolymer of benzenamine and formaldehyde, hydrogenated: Yes.
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine): No
- butanone: Yes.
- 3-aminopropyltriethoxysilane: Yes.
- 4,4'-methylenebis(cyclohexylamine): Yes.
- 1,3-Benzenedimethanamine, reaction products with epichlorohydrin: Yes.

National regulatory information

SARA Section 304 CERCLA:
- Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:
- 3-aminomethyl-3,5,5-trimethylcyclohexylamin (2855-13-2): Immediate (acute) health hazard
- m-phenylenebis(methylamine) (1477-55-0): Immediate (acute) health hazard
- benzyl alcohol (100-51-6): Immediate (acute) health hazard
- Copolymer of benzenamine and formaldehyde, hydrogenated (135108-88-2): Immediate (acute) health hazard, Delayed (chronic) health hazard
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) (113930-69-1): Immediate (acute) health hazard, Delayed (chronic) health hazard
- Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard
- 3-aminopropyltriethoxysilane (919-30-2): Immediate (acute) health hazard
- 4,4'-methylenebis(cyclohexylamine) (1761-71-3): Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act Section 112(b):
- Methyl ethyl ketone (78-93-3)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information
Safety Data Sheet

according to 29 CFR 1910.1200(g)

Proguard CN-1M V15 H3 Part B

Print date: 07/12/2017
Page 10 of 10

Hazardous Materials Information Label (HMIS)

Health: 3
Flammability: 2
Physical Hazard: 0

NFPA Hazard Ratings

Health: 3
Flammability: 2
Reactivity: 0
Unique Hazard:

Revision date: 07.07.2017
Revision No: 1.00

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Other data

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)