SAFETY DATA SHEET
CX² CERAMIC PAINT PREPARATION

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

1.1. Product identifier
Product name
CX² CERAMIC PAINT PREPARATION
Internal identification
L2035

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Cleaning agent.
Uses advised against
Use only for intended applications.

1.3. Details of the supplier of the safety data sheet
Supplier
GARDX INTERNATIONAL LTD
UNIT 7 CLOVELLY BUSINESS PARK
CLOVELLY ROAD
SOUTHBOURNE, EMSWORTH
HANTS
PO10 8PE
+44 (0)1243 376426
product@gardx.co.uk

1.4. Emergency telephone number
Emergency telephone
(24 hrs) +44 (0) 777 8505 330

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards
Flam. Liq. 3 - H226
Health hazards
Eye Irrit. 2 - H319
Environmental hazards
Not Classified

2.2. Label elements
Hazard pictograms

Signal word
Warning
Hazard statements
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 Wear eye protection.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards
**SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>30-60%</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>01-2119457610-43-XXXX</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>1-5%</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25-XXXX</td>
</tr>
<tr>
<td>Butanone</td>
<td>1-5%</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>01-2119457290-43</td>
</tr>
</tbody>
</table>

**Classification**
- Flam. Liq. 2 - H225
- Eye Irrit. 2 - H319
- STOT SE 3 - H336

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General information**
Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**
Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact**
Rinse with water.

**Eye contact**
Remove any contact lenses and open eyelids wide apart. Rinse cautiously with water for several minutes. Get medical attention if any discomfort continues.

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

**Inhalation**
May cause nausea, headache, dizziness and intoxication.

**Ingestion**
Gastrointestinal symptoms, including upset stomach.

**Skin contact**
Repeated exposure may cause skin dryness or cracking.
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Eye contact
Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters
Protective actions during firefighting
Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Take precautionary measures against static discharges. Provide adequate ventilation. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Avoid contact with contaminated tools and objects. Wash thoroughly after dealing with a spillage.

Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves, eye and face protection. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Avoid contact with contaminated tools and objects. Do not spray on an open flame or other ignition source. Do not reuse empty containers. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store at temperatures between 4°C and 40°C.
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Storage class
Flammable liquid storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

**ethanol**
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

propan-2-ol
Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

butanone
Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m³
Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m³

Sk, BMGV
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.
BMGV = Biological monitoring guidance value.

**ethanol (CAS: 64-17-5)**

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Workers - Inhalation; Short term : 1900 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Workers - Dermal; Long term systemic effects: 343 mg/kg/day</td>
</tr>
<tr>
<td></td>
<td>Workers - Inhalation; Long term : 950 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Inhalation; Short term : 950 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Dermal; Long term systemic effects: 206 mg/kg/day</td>
</tr>
<tr>
<td></td>
<td>Consumer - Inhalation; Long term : 114 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Oral; Long term systemic effects: 87 mg/kg/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC</th>
<th>- Fresh water; 0.96 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- marine water; 0.79 mg/l</td>
</tr>
<tr>
<td></td>
<td>- Soil; 0.63 mg/kg</td>
</tr>
<tr>
<td></td>
<td>- STP; 580 mg/l</td>
</tr>
<tr>
<td></td>
<td>- Sediment (Freshwater); 3.6 mg/kg</td>
</tr>
</tbody>
</table>

**propan-2-ol (CAS: 67-63-0)**

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Industry - Dermal; Long term systemic effects: 888 mg/kg/day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Industry - Inhalation; Long term systemic effects: 500 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Dermal; Long term systemic effects: 319 mg/kg/day</td>
</tr>
<tr>
<td></td>
<td>Consumer - Oral; Long term systemic effects: 26 mg/kg/day</td>
</tr>
<tr>
<td></td>
<td>Consumer - Inhalation; Long term systemic effects: 89 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC</th>
<th>- Fresh water; 140.9 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- marine water; 140.9 mg/l</td>
</tr>
<tr>
<td></td>
<td>- Intermittent release; 140.9 mg/l</td>
</tr>
<tr>
<td></td>
<td>- Sediment (Freshwater); 552 mg/kg</td>
</tr>
<tr>
<td></td>
<td>- Sediment (Marinewater); 552 mg/kg</td>
</tr>
<tr>
<td></td>
<td>- STP; 2251 mg/l</td>
</tr>
<tr>
<td></td>
<td>- Soil; 28 mg/kg</td>
</tr>
</tbody>
</table>

**butanone (CAS: 78-93-3)**
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DNEL

Workers - Inhalation; Long term systemic effects: 600 mg/m³
Workers - Dermal; Long term systemic effects: 1161 mg/kg/day
General population - Inhalation; Long term systemic effects: 106 mg/m³
General population - Dermal; Long term systemic effects: 412 mg/kg/day
General population - Oral; Long term systemic effects: 31 mg/kg/day

PNEC

- Fresh water; 55.8 mg/l
- marine water; 55.8 mg/l
- Intermittent release; 55.8 mg/l
- STP; 709 mg/l
- Sediment; 284.7 mg/kg
- Soil; 22.5 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Cleaning agent. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Neoprene. Nitrile rubber. Rubber (natural, latex).

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
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### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Gas and combination filter cartridges should comply with European Standard EN14387. Particulate filters should comply with European Standard EN143. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Organic vapour + dust and mist filter.

### Environmental exposure controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless.</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcoholic.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Flash point</td>
<td>23.5°C Setaflash closed cup.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not determined.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.928 @ 25°C</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>There are no chemical groups present in the product that are associated with explosive properties.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>There are no chemical groups present in the product that are associated with oxidising properties.</td>
</tr>
<tr>
<td>Comments</td>
<td>Information declared as &quot;Not available&quot; or &quot;Not applicable&quot; is not considered to be relevant to the implementation of the proper control measures.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information
SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid
Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
Notes (oral LD₅₀) Based on available data the classification criteria are not met. Read-across data.

Acute toxicity - dermal
Notes (dermal LD₅₀) Based on available data the classification criteria are not met. Read-across data.

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Based on available data the classification criteria are not met. Read-across data.

Skin corrosion/irritation
Skin corrosion/irritation Based on available data the classification criteria are not met. Read-across data.

Serious eye damage/irritation
Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation
Respiratory sensitisation Based on available data the classification criteria are not met. Read-across data.

Skin sensitisation
Skin sensitisation Based on available data the classification criteria are not met. Read-across data.

Germ cell mutagenicity
Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met. Read-across data.

Reproductive toxicity
Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.
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**Specific target organ toxicity - single exposure**
STOT - single exposure Based on available data the classification criteria are not met. Read-across data.

**Specific target organ toxicity - repeated exposure**
STOT - repeated exposure Based on available data the classification criteria are not met. Read-across data.

**Aspiration hazard**
Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

**Inhalation**
Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**
Gastrointestinal symptoms, including upset stomach.

**Skin contact**
Repeated exposure may cause skin dryness or cracking.

**Eye contact**
Causes serious eye irritation.

**Acute and chronic health hazards**
Irritating to eyes.

**Route of exposure**
Skin and/or eye contact

**Target organs**
Eyes

**Medical symptoms**
Dry skin. Dryness and/or cracking. Irritation of eyes and mucous membranes.

---

**SECTION 12: Ecological information**

**Ecotoxicity**
Not regarded as dangerous for the environment.

**12.1. Toxicity**

**Acute aquatic toxicity**
Not determined.

**Chronic aquatic toxicity**

**Chronic toxicity - fish early life stage**
Not determined.

**Ecological information on ingredients.**

**propan-2-ol**

**Acute aquatic toxicity**
LC₅₀, 24 hours: 9714 mg/l, Daphnia magna

**Acute toxicity - fish**
LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates**
EC₅₀, 72 hours: > 100 mg/l, Scenedesmus subspicatus

**12.2. Persistence and degradability**

**Persistence and degradability**
The product is expected to be biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**
The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient**
Not determined.

**12.4. Mobility in soil**
Mobility  Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment  This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects  Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods  Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General  For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

Special Provisions note

14.1. UN number

UN No. (ADR/RID)  1993
UN No. (IMDG)  1993
UN No. (ICAO)  1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID)  FLAMMABLE LIQUID, N.O.S.(ethyl alcohol)
Proper shipping name (IMDG)  FLAMMABLE LIQUID, N.O.S.(ethyl alcohol)
Proper shipping name (ICAO)  FLAMMABLE LIQUID, N.O.S.(ethyl alcohol)

14.3. Transport hazard class(es)

ADR/RID class  3
ADR/RID classification code  F1
ADR/RID label  3
IMDG class  3
ICAO class/division  3

Transport labels

14.4. Packing group

ADR/RID packing group  III
IMDG packing group  III
ICAO packing group  III
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14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
EmS F-E, S-E
ADR transport category 3
Emergency Action Code •3Y
Hazard Identification Number 30
(ADR/RID)
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).
Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
EC₅₀: 50% of maximal Effective Concentration.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOAEL: No Observed Adverse Effect Level.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative.
**Classification abbreviations and acronyms**

- Eye Irrit. = Eye irritation
- Flam. Liq. = Flammable liquid
- STOT SE = Specific target organ toxicity-single exposure

**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date**

25/10/2019

**Revision**

1.4

**Supersedes date**

08/10/2019

**SDS number**

29345

**Hazard statements in full**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.