

SDS No. 20-02-001-(E)-3, G-CEM ONE Adhesive Enhancing Primer

SAFETY DATA SHEET

Number: 20-02-001-(E)-3

Date prepared: 2020 July. 30

Date revised:

1. Chemical Product and Company Identification

Product name: G-CEM ONE Adhesive Enhancing Primer

Manufacturer/Supplier:

GC Corporation, 76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan

Postal code 174-8585, Phone 81-3-3965-1388

2. Hazards Identification

L GHS label elements, including precautionary statements

Pictograms or hazard symbols (Referring to Ethanol)

**Hazard statements:**

Highly flammable liquid and vapors.

May causes serious eye irritation.

May cause respiratory irritation

May cause drowsiness or dizziness

May cause cancer

May cause adverse effects on fertility or the unborn child

Damage to the liver through prolonged or repeated exposure

May cause damage to Central Nervous System through prolonged or repeated exposure

Precautionary statement:**[Prevention]:**

Obtain the instruction manual before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot sources of ignition. -No smoking.

Keep container tightly closed.

Ground/ground container.

Use explosion-proof electrical/ventilating/lighting equipment.

Use tools that do not generate sparks.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

[Response]:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue cleaning after that.

If exposed or concerned: Get medical advice/attention.Call a doctor if you feel unwell.If you feel unwell, seek medical advice/attention.

If eye irritation persists: Get medical advice/attention.

SDS No. 20-02-001-(E)-3, G-CEM ONE Adhesive Enhancing Primer

In case of fire: Use appropriate extinguishing media to extinguish.

[Storage]:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Place it in a cool place. Lock it and keep it safe.

[Disposal]:

Dispose of contents/container by requesting to a specialized waste disposal contractor licensed by the prefectural governor.

3. Composition / Information on Ingredients

(% chemical components by WT)

Ethanol	20-40
Phosphoric acid ester monomer	5-10
Thiophosphoric acid ester monomer	Trace
4-Methacryloxyethyl trimellitate anhydride	5-10
Distilled water	35
Dimethacrylate monomer	10-20
Initiator	Trace

4. First Aid Measures (referring to Ethanol)

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

Ingestion: Get medical advice/attention. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

5. Fire Fighting Measures (referring to Ethanol)

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

6. Accidental Release Measures (referring to Ethanol)**Personal precautions, protective equipment and emergency procedures:**

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Prevention of secondary hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

SDS No. 20-02-001-(E)-3, G-CEM ONE Adhesive Enhancing Primer

7. Handling and Storage (referring to Ethanol)

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Advice on safe handling: Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. Exposure Controls, Personal Protection

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Control parameters: Not set up

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. Physical and Chemical Properties

Appearance: Transparent Liquid.

Odor: monomer odor

Boiling Point: 78 degC (as Ethanol)

Flash Point: 14 degC (as Ethanol)

Vapor Pressure: 59.5 hPa at 20 degC (as Ethanol)

Vapor Density (20°C): No data

Solubility in Water: Not miscible

Specific Gravity: Approx. 0.8 g/cm³

Melting Point: No data

pH: No data

Volatility: No data

Auto ignition: 363 degC (as Ethanol)

10. Stability and Reactivity (referring to Ethanol)

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Spark, Open flame, Static discharge

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. Toxicological Information (referring to Ethanol)

Germ cell mutagenicity: dni-hmn-lym 220 mmol/L

mno-esc 140 g/L (-S9)

mno-sat 11 pph (+S9)

cyt-mus-ori 40 g/kg

8500 ppm (-S9)

SDS No. 20-02-001-(E)-3, G-CEM ONE Adhesive Enhancing Primer

12. Ecological Information

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Considerations

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

Disposal must be made according to the local official regulations.

14. Transport Information

IMO Regulations (IMDG):

Class: 3

UN Number: 1170

Packing Group: II

Marine Pollutant: No

Proper Shipping Name: Ethanol

ICAO and IATA Regulations:

Class: 3

UN Number: 1170

Packing Group: II

Proper Shipping Name: Ethanol

15. Regulatory Information

Chemical Inventory Status –

Ethanol (CAS 64-17-5)

EU Classification

Symbol: F

R: 11

S: (2-)-7-16

16. Other Information

No specific information available.

The information herein is given in good faith, but no warranty expressed or implied, is made.