

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

## 1 Identification

· **Product identifier**

· **Trade name:**

**SolEpoxy™ MCL-T2000**

**MG0699**

· **Application of the substance / the mixture** Raw material for the chemical industry

· **Uses advised against:** No further relevant information available.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

SolEpoxy, Inc.  
211 Franklin Street  
Olean, NY 14760 USA  
Telephone: 1-716-372-6300

Europe: CAPLINQ Europe B.V. / Tel: +31 20 893 2224 / Email: reach@caplinq.com

Taiwan & China / Cygnus Inc. / 7F-1, No. 50, Sec. 1 / Hsin Sheng S. Rd. / Taipei, Taiwan /

Tel: +886-2-2393-9171

India / Tech Space India PVT / B-28/34, Maurya Complex / Subhash Chowk / Laxmi Nagar, Delhi-110092 / India

Tel: +91-9810190551

Singapore & Malaysia / Austron (S) Pte Ltd / Blk 5 Ang Mo Kio Ind Park 2A / 05-19 AMK Tech II / Singapore 567760

Tel: +65 - 6752-1068

Korea / SL Materials Co., Ltd / 712, Woolim LionsValley 3rd, / 24, Dunchon-Daero; 388Beon - Gil, Jungwon-Gu / Sung

Nam City / Gyeonggi-Do / Korea

Tel: +82 70 7805 1156

· **Emergency telephone number:**

CHEMTREC (24 h): 1-800-424-9300 (US/Canada); +01 703-527-3887 (International)

## 2 Hazard(s) identification

· **Classification of the substance or mixture**

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

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

Quartz (SiO<sub>2</sub>)

formaldehyde

· **Hazard statements**

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

(Contd. on page 2)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

**Trade name: SolEpoxy™ MCL-T2000**

(Contd. of page 1)

**· Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Other hazards****· Results of PBT and vPvB assessment**

- **PBT:** Not determined.
- **vPvB:** Not determined.

### 3 Composition/information on ingredients

**· Chemical characterization: Mixtures****· Dangerous components:**

CAS: 14808-60-7 Quartz (SiO <sub>2</sub> )	30 - 40%
CAS: 557-05-1 zinc distearate	1 - 5%
CAS: 50-00-0 formaldehyde	0.1 - 1%

### 4 First-aid measures

**· Description of first aid measures****· General information:**

Take affected persons out of danger area and lay down.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

**· After inhalation:** Supply fresh air.**· After skin contact:**

Immediately rinse with water.  
If skin irritation continues, consult a doctor.

**· After eye contact:**

Rinse opened eye for several minutes under running water.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**· After swallowing:** Rinse out mouth and then drink plenty of water.**· Information for doctor:****· Most important symptoms and effects, both acute and delayed** No further relevant information available.**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**· Extinguishing media****· Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet**· Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:

Carbon monoxide  
Carbon dioxide

**· Advice for firefighters****· Protective equipment:** Wear self-contained respiratory protective device.

(Contd. on page 3)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 2)

**· Additional information**

- Cool endangered receptacles with water spray.
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.
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### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

- Ensure adequate ventilation.
- Wear protective clothing.
- Avoid formation of dust.
- Keep away from ignition sources.

**· Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**· Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Dispose of the collected material according to regulations.

**· Reference to other sections**

- See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
- 

### 7 Handling and storage

**· Handling:****· Precautions for safe handling**

- Prevent formation of dust.
- Any deposit of dust which cannot be avoided must be regularly removed.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.

**· Information about protection against explosions and fires:**

- Dust can combine with air to form an explosive mixture.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

**· Conditions for safe storage, including any incompatibilities****· Storage:**

- Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
  - Information about storage in one common storage facility:** Store away from oxidizing agents.
  - Further information about storage conditions:** Store in dry conditions.
  - Specific end use(s)** No further relevant information available.
- 

### 8 Exposure controls/personal protection

**· Control parameters****· Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)**

PEL see Quartz listing

REL Long-term value: 0.05\* mg/m<sup>3</sup>

\*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025\* mg/m<sup>3</sup>

\*as respirable fraction

(Contd. on page 4)

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 3)

**CAS: 557-05-1 zinc distearate**PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\*respirable fraction

TLV Long-term value: 10 mg/m<sup>3</sup>**CAS: 50-00-0 formaldehyde**

PEL Short-term value: 2 ppm

Long-term value: 0.75 ppm

see 29 CFR 1910.1048(c)

REL Long-term value: 0.016 ppm

Ceiling limit value: 0.1\* ppm

\*15-min; See Pocket Guide App. A

TLV Short-term value: 0.37 mg/m<sup>3</sup>, 0.3 ppmLong-term value: 0.12 mg/m<sup>3</sup>, 0.1 ppm

DSEN; RSEN

**· Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

The usual precautionary measures for handling chemicals should be followed.

**· Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**· Protection of hands:**

Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

PVC 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:** Safety glasses**· Body protection:** Protective work clothing

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## 9 Physical and chemical properties

**· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:** Solid material**Color:** White

(Contd. on page 5)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 4)

· <b>Odor:</b>	Not determined
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not applicable.
· <b>Flash point:</b>	> 93 °C (> 199.4 °F)
· <b>Flammability (solid, gaseous):</b>	Not determined.
· <b>Ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties</b>	No
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density:</b>	1.6 g/cm <sup>3</sup> (13.352 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
50-00-0 formaldehyde 0,35 (logPow)	
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0,7 %
<hr/>	
· <b>Other information</b>	No further relevant information available.

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## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

**CAS: 557-05-1 zinc distearate**

Oral LD50 &gt; 5000 mg/kg (Rat) (OECD Guideline 423)

Dermal LD50 &gt; 2000 mg/kg (Rabbit)

(Contd. on page 6)

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## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 5)

Inhalative LC50 (4h) 5.93 mg/L (Rat) (OECD Guideline 403)

**CAS: 50-00-0 formaldehyde**

Oral LD50 460 mg/kg (Rat) (OECD Guideline 401)

**Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritating effect.· **Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>): 1

CAS: 50-00-0 formaldehyde: 1

**NTP (National Toxicology Program)**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>): K

CAS: 50-00-0 formaldehyde: K

**OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 50-00-0 formaldehyde

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## 12 Ecological information

**Toxicity****Aquatic toxicity:****CAS: 557-05-1 zinc distearate**

LC50 (96h) (dynamic) 0.439 mg/L (Fish) (Cottus bairdii)

Read-across to CAS 7440-66-6

EC50 (24h) (static) 0.5 mg/L (Invertebrates) (Thamnocephalus platyurus)

Read-across to 1314-13-2

IC50 (3h) (static) 10 mg/L (activated sludge)

Read-across to 7733-02-0

**CAS: 50-00-0 formaldehyde**

LC50 (static) 25.68 mg/L (Fish) (Notemigonus crysoleucas)

72h

EC50 (48h) (dynamic) 2.627 mg/L (Algae) (Pseudokirchnerella subcapitata)

EC50 (3h) (static) 19 mg/L (Bacteria) (OECD Guideline 209, activated sludge)

**Persistence and degradability**

50-00-0 formaldehyde 100 @ 28d %

**Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

**Waste treatment methods**· **Recommendation:** Must be specially treated adhering to official regulations.

(Contd. on page 7)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/28/2017

Version No: 1

Reviewed on 11/28/2017

---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 6)

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

## 14 Transport information

- **UN-Number**
  - **DOT, ADR/RID/ADN, IMDG, IATA** Void
  - **UN proper shipping name**
  - **DOT, ADR/RID/ADN, IMDG, IATA** Void
  - **Transport hazard class(es)**
  - **DOT, ADR/RID/ADN, IMDG, IATA**
  - **Class** Void
  - **Packing group**
  - **DOT, ADR/RID/ADN, IMDG, IATA** Void
  - **Environmental hazards:** Not applicable.
  - **Special precautions for user** Not applicable.
  - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
  - **Transport/Additional information:** Not dangerous according to the above specifications.
  - **UN "Model Regulation":** Void
- 

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**

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CAS: 50-00-0 formaldehyde
- **Section 313 (Specific toxic chemical listings):**

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CAS: 557-05-1 zinc distearate  
CAS: 50-00-0 formaldehyde
- **TSCA (Toxic Substances Control Act):**

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All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**

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CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)  
CAS: 50-00-0 formaldehyde
- **Chemicals known to cause reproductive toxicity for females:**

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None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**

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None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**

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None of the ingredients is listed.
- **New Jersey Right-to-Know List:**

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CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)  
CAS: 557-05-1 zinc distearate  
CAS: 50-00-0 formaldehyde
- **New Jersey Special Hazardous Substance List:**

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CAS: 14808-60-7 Quartz (SiO<sub>2</sub>): CA  
CAS: 50-00-0 formaldehyde: CA, CO, MU, F4

(Contd. on page 8)



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---

**Trade name: SolEpoxy™ MCL-T2000**

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(Contd. of page 7)

**· Pennsylvania Right-to-Know List:**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)

CAS: 557-05-1 zinc distearate

CAS: 50-00-0 formaldehyde

**· Pennsylvania Special Hazardous Substance List:**

CAS: 557-05-1 zinc distearate: E

CAS: 50-00-0 formaldehyde: ES

**· Cancerogenity categories****· EPA (Environmental Protection Agency)**

CAS: 557-05-1 zinc distearate: D, I, II

CAS: 50-00-0 formaldehyde: B1

**· TLV (Threshold Limit Value established by ACGIH)**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>): A2

CAS: 50-00-0 formaldehyde: A2

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)

CAS: 50-00-0 formaldehyde

**· National regulations:****· Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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## 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.

**· Date of preparation / last revision 11/28/2017 / -****· Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 1A: Carcinogenicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1