

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

1 Identification

· **Product identifier**

· **Trade name:**

SolEpoxy™ AL20-2 Part A

EA 2002

· **Application of the substance / the mixture** Binder

· **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. / Provincialeweg 1 / 1561KK Krommenie / The Netherlands

Tel: +31 20 893 2224 Email: reach@caplinq.com

Philippines: GMV Materials Inc. / Warehouse D, Winsouth Two / 104 East Science Ave., Laguna Technopark Inc. / Binan,

Laguna 4030 / Philippines

Tel: (+6349) 508-2139

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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· **Label elements**

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

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 1)

· Hazard-determining components of labeling:

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer
1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

· Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves / eye protection / face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
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: 25068-38-6 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	40 - 50%
CAS: 14228-73-0 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane	1 - 3%

4 First-aid measures

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

Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

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

· After eye contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Seek medical treatment.

· **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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 2)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 3)

- **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.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
 - 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

Only use chemical-protective gloves with CE-labeling of category III.
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**

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:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Black
Odor:	Sweetish
Odor threshold:	Not determined.
pH-value:	Not determined.
- **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
- **Flash point:** Not determined.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 4)

· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	No
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
25068-38-6 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer 2,64 - 3,78 (logPow)	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

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.
-

11 Toxicological information

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

CAS: 25068-38-6 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer
Oral LD50 11400 mg/kg (Rat)
Dermal LD50 2000 mg/kg (Rat)

CAS: 14228-73-0 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane
Oral LD50 > 2000 mg/kg (Rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** 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

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 5)

- **Carcinogenic categories**
 - **IARC (International Agency for Research on Cancer)**

CAS: 1333-86-4 Carbon black: 2B
CAS: 14808-60-7 Quartz (SiO₂): 1
 - **NTP (National Toxicology Program)**

CAS: 14808-60-7 Quartz (SiO₂): K
 - **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.
-

* 12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:**

LC50 (96h) (static) > 400 mg/L (Fish) (OECD Guideline 203, Pimephales promelas)
EC50 (48h) (static) > 400 mg/L (Daphnia) (Daphnia pulex)
42.0 mg/L (Fish) (Cyprinodon variegatus)
119.1 mg/L (Invertebrates) (Americamysis bahia)
NOEC (72h) (static) 50 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
 - **CAS: 25068-38-6 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer**

LC50 (96h) 1.3 mg/L (Fish) (OECD Guideline 203)
EC50 (48h) 2.1 mg/L (Daphnia) (OECD Guideline 202)
EC50 (72h) > 11 mg/L (Algae)
NOEC (21d) 0.3 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna)
 - **Persistence and degradability** No further relevant information available.
 - **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.
-

13 Disposal considerations

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

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 6)

- **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):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

CAS: 1333-86-4 Carbon black (54.0%)

CAS: 14808-60-7 Quartz (SiO₂) (0.1%)

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **New Jersey Right-to-Know List:**

CAS: 1333-86-4 Carbon black

CAS: 14808-60-7 Quartz (SiO₂)

- **New Jersey Special Hazardous Substance List:**

CAS: 1333-86-4 Carbon black: CA

CAS: 14808-60-7 Quartz (SiO₂): CA

- **Pennsylvania Right-to-Know List:**

CAS: 14808-60-7 Quartz (SiO₂)

- **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

CAS: 1333-86-4 Carbon black: A4

CAS: 14808-60-7 Quartz (SiO₂): A2

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 1333-86-4 Carbon black

CAS: 14808-60-7 Quartz (SiO₂)

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.

(Contd. on page 8)



Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2017

Version No: 3

Reviewed on 06/08/2017

Trade name: SolEpoxy™ AL20-2 Part A

(Contd. of page 7)

· **Date of preparation / last revision 06/08/2017 / 2**

· **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)
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 & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**
