

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

## 1 Identification

- **Product identifier**
- **Trade name:** Crete Eater
- **Article number:** CE
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Superior Solutions  
3991 Hwy 171  
DeRidder, LA 70634
- **Information department:** (337) 794-1829
- **Emergency telephone number:**  
Chemtrec 1-800-424-9300, CCN 726066 or 1-703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
glycollic acid  
Mineral Acid Salt of Organic Amide  
HYDROXYETHYLIDENE DIPHOSPHONIC ACID
- **Hazard statements**  
Harmful if swallowed.  
Causes severe skin burns and eye damage.
- **Precautionary statements**  
P260 Do not breathe dusts or mists.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a poison center/doctor.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: **Crete Eater**

(Contd. of page 1)

P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

79-14-1	glycollic acid	>50-≤100%
	Mineral Acid Salt of Organic Amide	>10-≤25%
68439-46-3	C9-11 Alcohols Ethoxylated	≤2.5%
2809-21-4	HYDROXYETHYLIDENE DIPHOSPHONIC ACID	≤2.5%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
 Immediately remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
 Take affected persons into fresh air and keep quiet.  
 In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
 Remove contact lenses if able to do so.  
 Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
 A person vomiting while lying on their back should be turned onto their side.  
 Do not induce vomiting; immediately call for medical help.  
 Immediately call a doctor.  
 Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 2)

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Breathing difficulty  
Nausea  
Gastric or intestinal disorders  
Dizziness  
Cramp  
Corrosive and extremely irritating to all tissues.
- **Danger** Danger of gastric perforation.
- **Indication of any immediate medical attention and special treatment needed**  
Medical supervision for at least 48 hours.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
Carbon monoxide (CO)  
Nitrogen oxides (NOx)  
Hydrogen chloride (HCl)
- **Advice for firefighters**  
Product is not flammable, however due to the possible evolution of toxic gases in fire situations, fight surrounding fires from the upwind side of the fire wearing full SCBA protective gear. Avoid breathing fumes, vapors or gases from this product.
- **Protective equipment:**  
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Neutralize spills with lime or limestone powder. Ventilate effected area.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

79-14-1	glycollic acid	25 mg/m <sup>3</sup>
2809-21-4	HYDROXYETHYLIDENE DIPHOSPHONIC ACID	7.2 mg/m <sup>3</sup>

- **PAC-2:**

79-14-1	glycollic acid	280 mg/m <sup>3</sup>
2809-21-4	HYDROXYETHYLIDENE DIPHOSPHONIC ACID	79 mg/m <sup>3</sup>

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 3)

· PAC-3:		
79-14-1	glycollic acid	390 mg/m <sup>3</sup>
2809-21-4	HYDROXYETHYLIDENE DIPHOSPHONIC ACID	480 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of aerosols.  
Avoid splashes or spray in enclosed areas.
- **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:**  
Unsuitable material for receptacle: steel.  
Unsuitable material for receptacle: aluminium.  
Do not use light alloy receptacles.
- **Information about storage in one common storage facility:**  
Do not store together with alkalis (caustic solutions).  
Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **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**  
Rubber gloves

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 4)

PVC or PE gloves

Neoprene gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

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.

- **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

- **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:**

<b>Form:</b>	Liquid
<b>Color:</b>	Amber colored
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

- **pH-value at 20 °C (68 °F):** <1

- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapor pressure:** Not determined.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 5)

- |   |  |
|---|--|
| <b>· Solubility in / Miscibility with Water:</b>  | Fully miscible.                            |
| <b>· Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>· Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| <b>· Solvent content:</b>                         |  |
| <b>VOC content:</b>                               | 0.00 %<br>0.0 g/l / 0.00 lb/gl             |
| <b>Solids content:</b>                            | 76.0 %                                     |
| <b>· Other information</b>                        | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
  - Reacts with base metals forming hydrogen.
  - Reacts with various metals.
  - Reacts with alkali (lyes).
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
  - Hydrogen
  - Hydrogen chloride (HCl)
  - Phosphorus oxides (e.g. P2O5)
  - Nitrogen oxides
  - Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

79-14-1 glycollic acid

Oral	LD50	1,950 mg/kg (rat)
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- **Primary irritant effect:**  
  - on the skin:** Caustic effect on skin and mucous membranes.
  - on the eye:**  
    - Strong caustic effect.
    - Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
  - The product shows the following dangers according to internally approved calculation methods for preparations:  
    - Harmful
    - Corrosive

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 6)

**Irritant**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

no ingredient above de minimis level is listed

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

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **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.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

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

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**· **DOT, IMDG, IATA**

UN3265

(Contd. on page 8)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 7)

· **UN proper shipping name**  
 · **DOT** *Corrosive liquid, acidic, organic, n.o.s. (glycollic acid, Mineral Acid Salt of Organic Amide)*  
 · **IMDG, IATA** *CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glycollic acid, Mineral Acid Salt of Organic Amide)*

· **Transport hazard class(es)**· **DOT**

· **Class** *8 Corrosive substances*  
 · **Label** *8*

· **IMDG, IATA**

· **Class** *8 Corrosive substances*  
 · **Label** *8*

· **Packing group**· **DOT, IMDG, IATA** *III*· **Environmental hazards:** *Not applicable.*· **Special precautions for user**

· **Danger code (Kemler):** *80*  
 · **EMS Number:** *F-A,S-B*  
 · **Segregation groups** *Acids*  
 · **Stowage Category** *A*  
 · **Stowage Code** *SW2 Clear of living quarters.*

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*

· **Transport/Additional information:**· **DOT**

· **Quantity limitations** *On passenger aircraft/rail: 5 L*  
*On cargo aircraft only: 60 L*

· **IMDG**

· **Limited quantities (LQ)** *5L*  
 · **Excepted quantities (EQ)** *Code: E1*  
*Maximum net quantity per inner packaging: 30 ml*  
*Maximum net quantity per outer packaging: 1000 ml*

· **UN "Model Regulation":** *UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (GLYCOLLIC ACID, MINERAL ACID SALT OF ORGANIC AMIDE), 8, III*

US

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

Trade name: Crete Eater

(Contd. of page 8)

## 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):**

79-14-1 glycollic acid

68439-46-3 C9-11 Alcohols Ethoxylated

2809-21-4 HYDROXYETHYLIDENE DIPHOSPHONIC ACID

· **TSCA new (21st Century Act) (Substances not listed)**

Mineral Acid Salt of Organic Amide

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the substances are listed

· **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.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** *Danger*

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

glycollic acid

Mineral Acid Salt of Organic Amide

HYDROXYETHYLIDENE DIPHOSPHONIC ACID

· **Hazard statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

(Contd. on page 10)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/29/2017

Reviewed on 11/29/2017

**Trade name: Crete Eater**

(Contd. of page 9)

**· Precautionary statements**

- P260 Do not breathe dusts or mists.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.*

· **Department issuing SDS:** Environment protection department.

· **Date of preparation / last revision** 11/29/2017 / -

· **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)

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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 & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1