Conquer- 1094, 1095
Safety Data Sheet 20179
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier
Product form : Mixture
Product name : Conquer- 1094, 1095
Product code : 20179

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet
Advantage Chemical, LLC
Temecula, CA, 92590
T 1-855-238-2436

1.4. Emergency telephone number
Emergency number : 1-800-424-9300
ChemTrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Met. Corr. 1 : H290
Acute Tox. 4 (Oral) : H302
Skin Corr. 1A : H314
Eye Dam. 1 : H318
Full text of H-statements: see section 16

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

<table>
<thead>
<tr>
<th>GHS05</th>
<th>GHS07</th>
</tr>
</thead>
</table>

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) :
- H290 - May be corrosive to metals
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage

Precautionary statements (GHS-US) :
- P234 - Keep only in original container
- P260 - Do not breathe fumes, mists, spray or vapors
- P264 - Wash hands, forearms and face thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P280 - Wear Eye protection, Face protection, Skin protection. Clothing protection
- P301+P312 - If swallowed: Call a doctor or poison control center if ingested or eye contact has occurred if you feel unwell
- P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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
- P310 - Immediately call a POISON CENTER
- P330 - Rinse mouth
- P363 - Wash contaminated clothing before reuse
- P390 - Absorb spillage to prevent material damage
- P405 - Store locked up
- P406 - Store in Original container or corrosive resistant container with a resistant inner liner
- P501 - Dispose of contents/container to Dispose of at a licensed hazardous waste facility in accordance with state and local regulations

04/18/2018
EN (English)
SDS ID: 20179
Page 1
2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide, conc=30-55%, aqueous solution</td>
<td>(CAS No) 1310-58-3</td>
<td>10 - 30</td>
<td>Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>sodium hydroxide, conc=50%, aqueous solution</td>
<td>(CAS No) 1310-73-2</td>
<td>10 - 30</td>
<td>Skin Corr. 1A, H314</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact: Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/injuries after skin contact: Burns.

Symptoms/injuries after eye contact: Serious damage to eyes.

Symptoms/injuries after ingestion: Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity: Thermal decomposition generates: Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations.
Storage conditions: Keep only in original container in a cool well ventilated area. Keep container closed when not in use. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible products: Strong acids.
Incompatible materials: Direct sunlight. Metals.
Storage temperature: 25 (5 - 42) °C
Packaging materials: Do not store in corrodable metal. polyethylene.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>Conquer- 1094, 1095</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>potassium hydroxide, conc=30-55%, aqueous solution (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Personal protective equipment: Avoid unnecessary exposure.
Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or face shield. Safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls: Avoid release to the environment.
Other information: Do not eat, drink or smoke during use.
## SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>red</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>13.5 (12.5 - 14)</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt;= 0 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;= 100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>&gt;= 1.2574 g/ml</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC content</td>
<td>&lt;= 5 g/l</td>
</tr>
</tbody>
</table>

### 9.2. Other information

- **Log Pow**: No data available
- **Log Kow**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Viscosity**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong bases. Metals. May be corrosive to metals.

### 10.6. Hazardous decomposition products


## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

- **Acute toxicity**: Oral: Harmful if swallowed.
### Conquer- 1094, 1095

#### Safety Data Sheet

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<table>
<thead>
<tr>
<th>Conquer- 1094, 1095</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATE US (oral)</strong></td>
<td><strong>1110.000 mg/kg bodyweight</strong></td>
</tr>
</tbody>
</table>

**Potassium hydroxide, conc=30-55%, aqueous solution (1310-58-3)**

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>333 mg/kg (Rat; Literature study)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATE US (oral)</strong></td>
<td>333.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

: Causes severe skin burns and eye damage.

**pH:** 13.5 (12.5 - 14)

---

**Serious eye damage/irritation**

: Causes serious eye damage.

**pH:** 13.5 (12.5 - 14)

---

**Respiratory or skin sensitisation**

: Not classified

---

**Germ cell mutagenicity**

: Not classified

---

**Carcinogenicity**

: Not classified

---

**Reproductive toxicity**

: Not classified

---

**Specific target organ toxicity (single exposure)**

: Not classified

---

**Specific target organ toxicity (repeated exposure)**

: Not classified

---

**Aspiration hazard**

: Not classified

---

**Potential adverse human health effects and symptoms**

: Based on available data, the classification criteria are not met.

---

**Symptoms/injuries after skin contact**

: Burns.

---

**Symptoms/injuries after eye contact**

: Serious damage to eyes.

---

**Symptoms/injuries after ingestion**

: Burns.

---

**SECTION 12: Ecological information**

12.1. Toxicity

**Ecology - general**

: Before neutralisation, the product may represent a danger to aquatic organisms.

---

12.2. Persistence and degradability

**Conquer- 1094, 1095**

**Persistence and degradability**

: Not established.

---

**Sodium hydroxide, conc=50%, aqueous solution (1310-73-2)**

**Persistence and degradability**

: Biodegradability: not applicable. No (test)data on mobility of the components available.

---

**Potassium hydroxide, conc=30-55%, aqueous solution (1310-58-3)**

**Persistence and degradability**

: Biodegradability: not applicable. Low potential for adsorption in soil.

---

12.3. Bioaccumulative potential

**Conquer- 1094, 1095**

**Bioaccumulative potential**

: Not established.

---

**Sodium hydroxide, conc=50%, aqueous solution (1310-73-2)**

**Bioaccumulative potential**

: Does not contain bioaccumulative component(s).

---

**Potassium hydroxide, conc=30-55%, aqueous solution (1310-58-3)**

**Bioaccumulative potential**

: Does not contain bioaccumulative component(s).

---

12.4. Mobility in soil

No additional information available

---

12.5. Other adverse effects

**Effect on the global warming**

: No known ecological damage caused by this product.

---

**Other information**

: Avoid release to the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Waste disposal recommendations: Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description: UN1760 Corrosive liquids, n.o.s. (Sodium Hydroxide, Potassium Hydroxide), 8, II

UN-No.(DOT): UN1760

Proper Shipping Name (DOT): Corrosive liquids, n.o.s.

Sodium Hydroxide, Potassium Hydroxide

Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx): 202

DOT Packaging Bulky (49 CFR 173.xxx): 242

DOT Symbols: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102):

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal............. 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)

Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L

DOT Vessel Stowage Location: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other: 40 - Stow “clear of living quarters”

Additional information:

Other information: No supplementary information available.
### ADR
No additional information available

### Transport by sea
No additional information available

### Air transport
No additional information available

#### SECTION 15: Regulatory information

##### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Required Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>RQ (Reportable quantity, section 304 of EPA's List of Lists) 1000 lb</td>
</tr>
</tbody>
</table>

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<tr>
<th>Substance</th>
<th>Description</th>
<th>Required Information</th>
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<tbody>
<tr>
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<td>RQ (Reportable quantity, section 304 of EPA's List of Lists) 1000 lb</td>
</tr>
</tbody>
</table>

##### 15.2. International regulations

- **CANADA**
  No additional information available

- **EU-Regulations**
  No additional information available

- **Classification according to Regulation (EC) No. 1272/2008 [CLP]**
  No additional information available

- **Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
  Not classified

- **National regulations**
  No additional information available

##### 15.3. US State regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Required Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</td>
<td>U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List</td>
<td></td>
</tr>
</tbody>
</table>

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<th>Required Information</th>
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</table>

#### SECTION 16: Other information

Other information: None.
Conquer- 1094, 1095
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

<table>
<thead>
<tr>
<th>Acute Toxic. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals, Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
</tbody>
</table>

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard : None

HMIS III Rating
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : C

C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.