PRODUCT DATA SHEET (PDS)
SRLD SELF-CONTAINED SELF-RESCUER (SCSR)
Revision Date: 15-June-2018

The product referenced herein is an “article” as defined in 29 CFR 1910.1200, the European Classification and Labelling Regulation (EC) No 1272/2008 (CLP) and the Globally Harmonized System (GHS) for Classification and Labelling of Chemicals. These regulations exempt articles from the Safety Data Sheet (SDS) requirements. This PDS is provided as a service to our customers.

1. Identification

1.1 Product Identifier:
   Product Name: SRLD, SCSR
   Product Number: Q152090001000

1.2 Use of Substance:
   Oxygen generator- The SRLD SCSR is a Closed Circuit Escape Only Respirator that recycles the air you breathe, absorbing carbon dioxide and generating oxygen.

1.3 Company Identification:
   CSE Corporation
   1001 Corporate Lane
   Export, PA 15632
   Phone: 412-856-9200
   Fax: 412-856-9203

1.4 Emergency Number: 1-800-535-5053   Account# 74496 (24 hour emergency number)

2. Hazard(s) Identification

This product is an emergency escape breathing device. The chemicals in this device are safely contained and present no hazard to the user under normal storage and use conditions. If the canister is breached exposing and/or spilling chemicals, adverse health effects are for the chemicals themselves. The potential for exposure should not exist unless the canister is exposed to high temperatures or is mechanically or physically abused or damaged. Do not puncture, incinerate, crush, or expose the canister to extreme temperatures.
2.1 Classification

<table>
<thead>
<tr>
<th>Category</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing solids</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin Corrosion/irritation</td>
<td>Category 1 A</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

2.2 Signal word

Danger

2.3 Hazard Statements

May intensify fire; oxidizer
Causes severe skin burns and eye damage

Relevant H-Phrases:

H270
H314

2.4 Hazards not otherwise classified (HNOC)

Classification according to EU Directives 67/548/EEC or 199/45/EC
Contact with combustible materials may cause fire. Causes burns. Reacts violently with water.

3. Composition / Information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>UN No.</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium superoxide</td>
<td>2466</td>
<td>12030-88-5</td>
<td>234-746-5</td>
</tr>
<tr>
<td>Oxygen</td>
<td>1072</td>
<td>7782-44-7</td>
<td>231-956-9</td>
</tr>
<tr>
<td>Lithium Hydroxide</td>
<td>2680</td>
<td>1310-65-2</td>
<td>215-183-4</td>
</tr>
</tbody>
</table>

4. First-aid measures

Prompt medical attention is mandatory in all cases of severe overexposure to the chemical contents of the SRLD SCSR. If the device is not breached, no danger to health or safety exists. In normal operation the device does not pose a danger to health or safety. Only when the device is breached in such a way as to expose and/or spill the chemicals is there a danger to safety or
health (e.g. unit crushed). First aid measures are for exposure to the chemical themselves. Take copy of PDS to health profession with contaminated individual.

4.1 **Inhalation:**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

4.2 **Skin contact:**
Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing immediately. Get medical attention immediately.

4.3 **Eye Contact:**
Rinse eyes immediately with large amounts water for at least 15 minutes, holding eye lid open. Get medical attention immediately.

4.4 **Ingestion:**
Do NOT induce vomiting! Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately!

4.5 **Most important symptoms/effects:**
Causes burns by all exposure routes. Product is a corrosive material. Severe damage to the delicate tissue and danger of perforation.

4.6 **Notes to Physician:**
Treat symptomatically

### 5. Fire-fighting measures

5.1 **Suitable extinguishing media:**
Neither potassium superoxide or lithium hydroxide will burn. Use extinguishing material appropriate for surrounding fires.

5.2 **Specific Hazards Arising from the Chemical:**
Water will react with any exposed chemical leading to the generation of oxygen. If water must be used to fight a fire, use of water in excessive amounts will overcome any hazards associated with spilled chemical.

5.3 **Auto-ignition Temperature:**
No information available

5.4 **Explosion Limits:**
Sensitivity to Mechanical Impact: No information available
Sensitivity to Static Discharge: No information available

5.5 Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus, MSHA/NIOSH approved (or equivalent) and full protective gear.

6. Accidental release measures

6.1 Personal Precautions:
Do not enter any area where chemical has been spilled unless safe to do so. Do not allow spilled materials to contact eyes or skin, use protective gloves resistant against corrosive/basic materials and safety goggles. Use appropriate dust mask to minimize exposure to dust or particulate material that may be present.

6.2 Environmental Precautions:
Do not allow the chemical to enter the environment or sewers.

6.3 Methods for Containment and Clean up:
Sweep up dry while avoiding formation of dust. Wash away residues with large amounts of water and ensure good ventilation to dissipate any excess oxygen.

7. Handling and storage

7.1 Handling:
Precautions for safe handling: Handle according to the SRLD SCSR instructions of use. When sealed, the SRLD SCSR can be handled without any special personal protective equipment (PPE).

7.2 Storage:
Requirements for storage: Store in a dry, cool place. Keep/Store away from extremely high or low temperatures. The preferred storage temperature range is -20 to 150°F (-28 to 65.5° C).
8. Exposure controls / personal protection

8.1 Exposure Guidelines:
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Occupational exposure controls:
General protection and hygiene measures: Not necessary when handled according to the instructions for use

8.3 Personal protection:
8.3.1 Respiratory protection:
Not necessary when handled according to the Instruction for Use. In case of accident where unit is breached exposing chemicals, use a NIOSH approved (or equivalent) respirator.

8.3.2 Skin and body protection:
With normal handling of the SRLD SCSR there should be no exposure to contents. In case of accident where unit is breached exposing chemicals, wear appropriate protective gloves and clothing to prevent skin exposure.

8.3.3 Eye/face protection:
Not necessary when handled according to the Instruction for Use. In case of accident where unit is breached exposing chemicals, wear appropriate chemical safety goggles as described by OSHA’s eye and face protection regulations (or equivalent).

8.4 Engineering controls:
Not applicable

9. Physical and chemical properties

9.1 General information: The information below is in regards to the chemical within the cartridge.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance:</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor:</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No information available</td>
</tr>
<tr>
<td>pH:</td>
<td>n/a</td>
</tr>
<tr>
<td>Melting Point/Range:</td>
<td>400.00 °C</td>
</tr>
<tr>
<td>Boiling Point/Range:</td>
<td>n/a</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>n/a</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available</td>
</tr>
<tr>
<td>Property</td>
<td>Details</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

10.1 Reactivity: Sensitive to moisture
10.2 Chemical stability: Stable under normal conditions and when instructions for use are followed
10.3 Hazardous reactions: None under normal processing
10.4 Conditions to avoid: Incompatible products
10.5 Incompatible materials: Acids, water, organic and combustible substances, oil, grease
10.6 Hazardous decomposition products: None under normal use conditions

11. Toxicological information

11.1 Toxicity Tests: No information available
11.2 Irritation: No information available
11.3 Sensitization: No information available
11.4 Carcinogenicity: No information available
11.5 Mutagenic Effects: No information available
11.6 Reproductive Effects: No information available
11.7 STOT- single exposure: None known
11.8 STOT- repeated exposure: None known
11.9 Further information: No data available
11.10 Effects on human body: n/a
12. Ecological information

12.1 Ecotoxicity:
No ecotoxicity data is available for the SRLD SCSR

12.2 Persistence and degradability:
No information available

12.3 Bioaccumulative potential:
No information available

12.4 Mobility:
No information available

13. Disposal considerations

13.1 Waste Disposal Methods:
Contact a licensed professional waste disposal service equipped and permitted to dispose of US EPA waste codes D001 and D002. Observe all national, state, provincial, and local environmental regulations.

14. Transport information

<table>
<thead>
<tr>
<th>Description and Proper Shipping Name</th>
<th>Oxygen generator, chemical (including when contained in associated equipment, e.g., passenger service units (PSUs), portable breathing equipment (PBE), etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>5.1</td>
</tr>
<tr>
<td>Identification Numbers</td>
<td>UN 3356</td>
</tr>
<tr>
<td>Packing Group (PG)</td>
<td>None</td>
</tr>
<tr>
<td>Label Codes</td>
<td>5.1</td>
</tr>
<tr>
<td>Special provisions (§172.102)</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packaging (§173.***</th>
<th>Exceptions</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-Bulk</td>
<td>168</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity Limitations</th>
<th>Passenger aircraft/rail</th>
<th>Forbidden</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cargo aircraft only</td>
<td>25 kg gross</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vessel stowage</th>
<th>Location</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Other</td>
<td>56, 58, 69, 106</td>
</tr>
</tbody>
</table>
15. Regulatory information

15.1 NIOSH
The SRLD SCSR is rated for 60 minutes accordance with 42 CFR Part 84 code for chemical oxygen (KO₂) self-contained rescuers. It is approved only in the following configurations:

<table>
<thead>
<tr>
<th>TC:</th>
<th>Protection:</th>
<th>Respirator</th>
<th>Cautions and limitations:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-13F-0645</td>
<td>60 min/sc/esc</td>
<td>Q152090001000</td>
<td>JMNOS</td>
</tr>
</tbody>
</table>

This device is an oxygen generator. The device is classified as an “article” as defined in 29 CFR 19100.1200 (b) (6) (v).

15.2 Labeling according to EC Regulations:
P-Phrases (recommendation):

- P102 Keep out of reach of children
- P302+P352 IF ON SKIN: Wash with plenty of water
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention

16. Other information

Revision Date: 15-June-2018
Prepared by: CSE Corporation
Email: customerservice@csecorporation.com

Disclaimer
The information provided on this Product Data Sheet (PDS) is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The manufacturer makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from its use. It is the responsibility of the customer to test whether the product is suitable for the purpose intended by the customer. The information within this PDS relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of PDS