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## PRODUCT DATA SHEET (PDS) ASR SELF-CONTAINED SELF-RESCUER (SCSR)

Revision Date: 25-July-2017

*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: ASR, SCSR  
Product Number: Q155005001001

#### 1.2 Use of Substance:

Oxygen generator- The ASR 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

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.



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## 2.1 Classification

Oxidizing solids	Category 2
Skin Corrosion/irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1

## 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

Component	UN No.	CAS No.	EC No.
Potassium superoxide	2466	12030-88-5	234-746-5
Oxygen	1072	7782-44-7	231-956-9

# 4. First-aid measures

Prompt medical attention is mandatory in all cases of severe overexposure to the chemical contents of the ASR 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 professional 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:**

**Upper:** No data available

**Lower:** No data available



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**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 ASR SCSR instructions of use. When sealed, the ASR SCSR can be handled without any special personal protective equipment (PPE).

**7.2 Storage:**

Requirements for storage: Storage of the device should be in a clean, dry environment away from direct heat and sunlight. The preferred storage temperature range is -20 to 147°F (-29 to 64° 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 ASR 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.

Physical State:	Solid
Appearance:	No information available
Odor:	No information available
Odor Threshold:	No information available
pH:	n/a
Melting Point/Range:	400.00 °C
Boiling Point/Range:	n/a
Flash Point:	n/a
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available



Flammability or explosive limits:	No data available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative density:	No information available
Solubility:	No information available
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

## 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 ASR 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

<b>Description and Proper Shipping Name</b>		Oxygen generator, chemical (including when contained in associated equipment, e.g., passenger service units (PSUs), portable breathing equipment (PBE), etc.)
<b>Hazard Class</b>		5.1
<b>Identification Numbers</b>		UN 3356
<b>Packing Group (PG)</b>		None
<b>Label Codes</b>		5.1
<b>Special provisions (§172.102)</b>		None
<b>Packaging (§173.***)</b>	<b>Exceptions</b>	None
	<b>Non-Bulk</b>	168
	<b>Bulk</b>	None
<b>Quantity Limitations</b>	<b>Passenger aircraft/rail</b>	Forbidden
	<b>Cargo aircraft only</b>	25 kg gross
<b>Vessel stowage</b>	<b>Location</b>	D
	<b>Other</b>	56, 58, 69, 106



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## 15. Regulatory information

- 15.1 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:** 25-July-2017  
**Prepared by:** CSE Corporation  
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### 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**