

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200 Standard must be  
consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Crew Member Personal Breathing Equipment

Note: Blank Spaces are not permitted. If any item is not applicable, or  
no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name

Essex PB&R Corporation

Emergency Telephone Number

(800)424-9300 Chemtrec

Address (Number, Street, City, State, and Zip Code)

8007 Chivvis Drive

Telephone Number for Information

(800)296-7587

St. Louis, MO 63123

Date Prepared

9/18/2009

Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH/TLV	Other Limits Recommendec	CAS #
Lithium Hydroxide - Anhydrous	2mg/m3	2mg/m3	None	1310-65-2
Compressed Oxygen		*N.E.	*N.E.	07782-44-7

LiOH is classified as a Corrosive Solid Class 8

Oxygen is classified as Oxygen, Compressed Class 2.2

Except as noted, sections III through VIII apply to only Lithium Hydroxide.

\* N.E. - Not Established

## Section III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity ( H2O = 1 ) 1.5
Vapor Pressure (mm Hg.) N/A	Melting Point 470 Degrees C (878 Degrees F)
Vapor Density (Air = 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A

Solubility in Water

10% by Weight

Appearance and Odor

White Powder/Odorless

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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Extinguishing Media

Any Suitable for Surrounding Fire

Special Fire Fighting Procedures

If Possible, Remove Units from Fire

Unusual Fire and Explosion Hazards

Compressed Oxygen Must Not Be Exposed to More Than 185 Degrees F

## Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid None
	Stable	X	

Incompatibility (Materials to Avoid)

**Strong Acids, Aluminum, Zinc**

Hazardous Decomposition or Byproducts

None

Hazardous Polymerization	May Occur		Conditions to Avoid Reacts with Acids
	Will Not Occur	X	

## Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards(Acute and Chronic)

**Corrosive to Skin, Eyes, Nose, Throat and Respiratory Tract**

**Use of LiOH Presents No Significant Toxicity Hazard**

Carcinogenicity:	NTP?	IARC Monographs?	OSHA regulated?
	No	No	No

**Not Identified to be a Carcinogen**

Signs and Symptoms of Exposure:

**Itching and/or Redness to Skin, Burning Sensation**

Medical Conditions:

Generally Aggravated by Exposure: **No Applicable Conditions Were Found**

Emergency and First Aid Procedures:

**Eyes: Flush with Water and See Physician Immediately.**

**Skin: Flush with Water.**

**Inhalation: Remove to Fresh Air.**

**Ingestion: Drink two(2) Glasses of Water, Do Not Induce Vomitting.**

## Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material Is Released or Spilled:

**Sweep Up and Place in Suitable Containers.**

Waste Disposal Method:

**In Accordance with Federal and State EPA and Local Regulations.**

Precautions to be Taken in Handling and Storing:

**So not to Get on Skin, Eyes or Clothing. Avoid Breathing Dust, Keep Containers Shut.**

**Wash Thoroughly after Using.**

Transportation Information:

**Life-saving appliances, not self inflating. Class 9. UN3072. Hazard Weight: 0.248kG per Unit.**

## Section VIII - Control Measures

Respiratory Protection (Specify Type)

**Wear NIOSH/MSHA Approved Dust Mask When Ventilation is not Adequate.**

Ventilation	Local Exhaust <b>Is Adequate</b>	Special None
	Mechanical (general) None	Other None

Protective Gloves

**Rubber or Latex**

Eye Protection

**Safety Glasses with Side Shields or Goggles**

Other Protective Clothing or Equipment

Work/Hygienic Practices

**Practice Good Housekeeping to Avoid Accumulation of Dust.**

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