

# Material Safety Data Sheet

Revision Date 27-Jul-2010

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** DR8200T06  
**Product name** LUNGE  
**EPA Registration No.** 8155-6-40208  
**Recommended Use** Disinfectant / Deodorizer

**Supplier** Drummond, A Lawson Brand  
Lawson Products, Inc.  
1666 East Touhy Avenue  
Des Plaines, IL 60018  
1-866-529-7664

**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**  
Irritant. Corrosive.

### Aggravated Medical Conditions

Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

### Principal Routes of Exposure

Eyes. Skin.

### Potential health effects

**Eyes** Will cause the following effects. Severe irritation. Chemical burns. Irreversible damage to eyes.

**Skin** May cause the following effects: . Skin Irritation. Causes burns. Redness. Swelling. Blistering. Severity depends on degree of exposure.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Severity depends on degree of exposure.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Hydrochloric Acid	7647-01-0	7-13
Water	7732-18-5	60-100
Amine Ethoxylate	61791-24-0	0.5-1.5
Nonylphenol Ethoxylate	9016-45-9	0.5-1.5

## 4. FIRST AID MEASURES

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention immediately.

**Skin contact** Remove contaminated clothing and footwear. Flush area with water for 15 minutes. Wash area thoroughly with soap and water. Seek medical attention.

**Ingestion** Do not induce vomiting. Rinse mouth with water and spit out rinse. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Keep head below hips if vomiting occurs. Vomiting may cause aspiration pneumonia. Drink plenty of water. Seek medical attention immediately. Do not give anything by mouth to an unconscious person.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

**Notes to physician** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** None  
**Flash point °F** None  
**Method** No information available

**Autoignition temperature °C** Not Applicable  
**Autoignition temperature °F** Not Applicable

**Flammability Limits (% in Air)**  
**Upper** No data available  
**Lower** No data available

### Suitable extinguishing media

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

### Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### Special Fire-Fighting Procedures

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### Sensitivity to shock

No information available.

### Sensitivity to static discharge

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

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### Methods for cleaning up

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Dike or dam large spills. Soak up with inert absorbent material. Collect and contain for disposal. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use only according to label directions. Thoroughly wash hands and exposed skin after handling. Keep container closed when not in use.

### Storage

Store in original container. Keep in a dry, cool and well-ventilated place. Follow all label directions. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Water	-	-	-	-
Hydrochloric Acid	-	5 ppm 7 mg/m <sup>3</sup>	-	-
Amine Ethoxylate	-	-	-	-
Nonylphenol Ethoxylate	-	-	-	-

### Ventilation and Environmental Controls

Normal ventilation is adequate.

### Hygiene measures

General industrial hygiene practice. Wash hands before breaks and immediately after handling the product.

### Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

### Hand Protection

Impervious gloves. Latex gloves. Neoprene gloves.

### Eye protection

Use safety eyewear designed to protect against splash of liquids.

### Skin and body protection

None necessary under normal conditions

### Other Protective Equipment

A safety shower and eye wash station should be available for emergency use. Wear appropriate clothing to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Red

Odor	Aromatic
Odor Threshold	No information available
pH	Less Than 1
Specific Gravity	1.045
Vapor pressure	No data available
Vapor density	No data available
Evaporation Rate	> 1 (H <sub>2</sub> O = 1)
Water solubility	Soluble in water
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	100
Boiling point/range °F	212
Melting point/range °C	< 0
Melting point/range °F	< 32
Flash point °C	None
Flash point °F	None

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Do not store above 130 degrees F. May coagulate if frozen at 32 degrees F, 0 degrees C.

### Incompatibility

Strong bases. Chlorine bleach. Do not mix with other chemicals.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). Hydrogen chloride fumes. Chlorine gas. Toxic chlorides.

### Polymerization

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Water 7732-18-5	90 mL/kg	-	-
Hydrochloric Acid 7647-01-0	700 mg/kg	5010 mg/kg	3124 ppm
Amine Ethoxylate 61791-24-0	1 g/kg	-	-
Nonylphenol Ethoxylate 9016-45-9	1310 mg/kg	2 mL/kg	-

### Synergistic Products

None known

### Potential health effects

#### Sensitization

None known

#### Chronic toxicity

See Section 2 .

<b>Mutagenic effects</b>	None known
<b>Teratogenic effects</b>	None known
<b>Reproductive toxicity</b>	None known
<b>Target Organ Effects</b>	See Section 2
<b>Carcinogenic effects</b>	See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Hydrochloric Acid	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Amine Ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

### Disposal Information

Carefully follow label instructions for disposal . Triple rinse and dispose of in a sanitary landfill or by other procedures approved by state or local authorities. Wrap container and place in trash collection.

### Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations. Please recycle empty container whenever possible.

## 14. TRANSPORTATION INFORMATION

### DOT

UN1789 Hydrochloric acid, Class 8, PG II

*Exception:* (Corrosive PG II not more than 1.0L or 1.0kg) Consumer Commodity ORM-D

### TDG

Not Allowed

### IMDG/IMO

UN1789 HYDROCHLORIC ACID, Class 8, PG II

### IATA

UN1789 Hydrochloric acid, Class 8, PG II

### MEX

Not Allowed

## 15. REGULATORY INFORMATION

<b>Chemical Name</b>	US EPA SARA 313 Emission Reporting
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Hydrochloric Acid	Listed
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Chemical Name	CERCLA/SARA 302 TPQ
Hydrochloric Acid	\$500 lb, TPQ

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Water	Not Listed	Not Listed	Not Listed
Hydrochloric Acid	Listed	Listed	Not Listed
Amine Ethoxylate	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
Water	X	X	-	X
Hydrochloric Acid	X	X	-	X
Amine Ethoxylate	-	X	-	X
Nonylphenol Ethoxylate	-	X	-	X

### CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## 16. OTHER INFORMATION

### HMIS

**Health** - 2  
**Flammability** - 0  
**Physical Hazard** - 0

### Prepared By

H. Buck, Regulatory Affairs Manager

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.