

## 1. IDENTIFICATION

**Product name:** L-44 OSD Degreaser  
**Other means of Identification:**  
**Recommended Use:** Commercial/industrial hard surface cleaner  
**Recommended Restrictions:**  
**Manufacturer Information:** Custom Compounders, Inc.  
 #1 Tenbrook Industrial Court - Arnold, MO 63010  
 Telephone: (636) 296-3131  
 Fax No.: (636) 296-4242  
 24-hr. Emergency #: (800) 424-9300

## 2. HAZARD(S) IDENTIFICATION

**Physical hazards:** Corrosive to metals Category 1  
 (see Section 10)

**Health hazards:** Eye Damage/irritation Category 1  
 Skin corrosion/irritation Category 2  
 Acute Toxicity – Oral Category 4

**Environmental hazards:** Acute Aquatic Toxicity Category 3

**OSHA defined hazards:** None known

## Label elements:



**Signal Word:** Danger

**Hazard Statement:** May be corrosive to metals. Causes serious eye damage. Causes skin irritation. Harmful if swallowed. Harmful to aquatic life.

## Precautionary Statements:

**Prevention:** Keep only in original container. Wash hands thoroughly after handling. Wear protective gloves and eye and face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.

**Response:** Absorb spillage to prevent material damage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention. Specific treatment (see Section 4 of this SDS or First Aid section on label). If swallowed: Rinse mouth. Call a poison center or doctor if you feel unwell.

**Storage:** Store in original container, or corrosive resistant container with a resistant inner liner.

**Disposal:** Dispose of contents/container in accordance with local, regional, national or international regulations.

**Hazard(s) not otherwise Classified (HNOC):** None known.

**Supplemental Information:** Preexisting eye, skin and respiratory disorders may be aggravated by exposure. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>
Alanine, N, N-bis (carboxymethyl)-, trisodium salt	164462-16-2	< 10 %
Alcohol, ethoxylated	(proprietary blend)	< 10 %
Sodium citrate	68-04-2	< 3 %
Silicic acid, sodium salt	1344-09-8	< 2 %

**(Note:** The exact composition of this product, with respect to the percentages of its' reported ingredients and the presence of its' non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

### 4. FIRST-AID MEASURES

<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Remove contacts if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Skin:</b>	Immediately remove all contaminated clothing and wash contaminated areas with plenty of water for at least 15 – 20 minutes. Wash clothing separately before reuse. Clean shoes thoroughly before reuse. If symptoms develop, or skin irritation persists, get medical attention.
<b>Inhalation:</b>	Remove to fresh air. If difficulties occur, get medical attention.
<b>Ingestion:</b>	Rinse mouth with water. Do not give anything by mouth to an unconscious or drowsy person. Do not induce vomiting, unless directed to do so by physician. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed:</b>	Causes serious eye damage. Causes skin irritation. Harmful if swallowed. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Use an extinguishing agent (water spray, dry powder or foam) suitable for the surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None known
<b>Specific hazards arising from the chemical:</b>	No specific fire or explosion hazard. Decomposition products may include harmful vapors, nitrous gases, and carbon oxides.
<b>Special protective equipment and pre-cautions for firefighters:</b>	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Firefighting equipment /instructions:</b>	Move containers from fire area, if you can do so without risk.
<b>Specific methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards:</b>	No unusual fire or explosion hazards noted.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,** Keep unnecessary and unprotected personnel away and upwind of spill/leak. Wear

**protective equipment, and emergency procedures:** appropriate protective clothing and equipment during clean-up. Do not touch or walk through spilled material to prevent slip hazards. Provide adequate ventilation.

**Methods and materials for containment and cleaning up:** Stop leak if you can do so without risk. Move containers from spill area, if without risk. Contain and collect spillage with non-combustible material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Clean surface thoroughly to remove residual contamination. Prevent entry into sewers, water courses, basements or confined areas.

**Environmental precautions:** Avoid discharge into drains, water courses, sewers, or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. HANDLING & STORAGE

**Precautions for safe handling:** Wear appropriate protective equipment and clothing. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Wash hands thoroughly after handling. Do not eat, drink or smoke while using this product. Launder contaminated clothing and thoroughly clean contaminated footwear before reuse.

**Conditions for safe storage, including any incompatibilities:** Store in original, tightly sealed containers when not in use. Protect from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not allow to freeze for product quality assurance. Do not combine with other chemicals.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure limits:** No exposure limits noted for ingredients.

**Appropriate Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If exposure limits have not been established, maintain airborne levels to an acceptable level. Keep container closed when not in use. Eye wash facilities and emergency shower should be available when handling this product.

**Individual protection measures, such as personal protective equipment:**

**Eye, face and skin:** **Eyes and face:** Wear chemical splash goggles as when handling any chemical.  
**Skin:** Wear chemical resistant gloves to prevent skin irritation

**Respiratory Protection:** Not required under normal conditions of use. In case of insufficient ventilation, use either any air-purifying respirator with mist filter, or any supplied air respirator operating in a continuous flow mode.

**Ventilation Required:** Provide ventilation adequate to maintain airborne concentrations below OSHA limits of 2 mg/m<sup>3</sup>.

**General hygiene considerations:** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material, and before eating, drinking, and /or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear green liquid
<b>Odor:</b>	Slight to mild surfactant odor.
<b>Odor threshold:</b>	Not available
<b>pH:</b>	10.80 - 11.00 (as shipped)
<b>Melting point/freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	> 200 deg. F
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid/gas):</b>	Not applicable
<b>Upper/lower flammability or explosive limits:</b>	Non-flammable

Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	8.725 typical
Solubility:	Complete
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Other information:	
Specific Gravity:	1.046 typical

## 10. STABILITY & REACTIVITY

<b>Reactivity:</b>	May be corrosive to aluminum.
<b>Chemical stability:</b>	Stable under normal conditions of use and storage.
<b>Possibility of hazardous reactions:</b>	Under normal conditions of use and storage, hazardous reactions will not occur.
<b>Conditions to avoid:</b>	Contact with incompatible materials.
<b>Incompatible materials:</b>	Amphoteric metals, light metals
<b>Hazardous decomposition products:</b>	None known.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

<b>Eye and Skin contact:</b>	May cause serious eye damage and skin irritation.
<b>Ingestion:</b>	May be irritating to mouth, throat, and stomach.
<b>Inhalation:</b>	May cause irritation to the respiratory tract.

**Symptoms related to the physical chemical and toxicological characteristics:** Eye contact may cause pain, irritation, watering, or redness. Skin contact may cause irritation and/or redness. Ingestion may cause irritation to the mouth, throat and stomach.

### Information on toxicological effects:

Product	Species	Test Results
<b>Alanine, N, N-bis (carboxymethyl)-, trisodium salt CAS# 164462-16-2</b>		
<b>Acute toxicity</b>		
LD50 (Oral)	Rat	> 4000 mg/kg
LC50 (Inhalation)	Rat	> 5 mg/l, 4 hours
LD50 (Dermal)	Rat	> 4000 mg/kg
<b>Ethoxylated Alcohol</b>		
<b>Acute toxicity</b>		
LD50 (Oral)	Rat	> 300 - 2000 mg/kg
LC50 (Inhalation)	Rat	> 5 mg/l, 4 hours
LD50 (Dermal)	Rat	> 4000 mg/kg

**Silicic Acid, sodium salt**  
CAS# 1344-09-8

**Acute toxicity**

LD50 (Oral)	Rat	> 3400 mg/kg bw
LC50 (Inhalation)	Rat	> 2.06 g/m <sup>3</sup> , 4 hours
LD50 (Dermal)	Rat	> 5000 mg/kg bw

**Respiratory sensitization:**

Not expected to cause respiratory sensitization

**Skin sensitization:**

Not expected to cause skin sensitization

**Carcinogenicity:**

Not expected to cause significant effects or critical hazards.

**Germ cell mutagenicity:**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive toxicology:**

Not expected to cause reproductive or developmental effects.

**Specific target organ toxicity-****Single exposure:**

Not classified

**Specific target organ toxicity-****Repeated exposure:**

Not classified

**Aspiration hazard:**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Product	Species	Test Results
<b>Alanine, N, N-bis (carboxymethyl)-, trisodium salt</b>		
CAS# 164462-16-2		
LC50	Fish (Brachydanio rerio)	> 200 mg/l (96 hr)
EC50	Aquatic invertebrates (Daphnia magna)	> 200 mg/l (48 hr)
EC50	Scenedesmus subspicatus (algae)	> 200 mg/l (72 hr)
<b>Ethoxylated Alcohol</b>		
LC50	Fish (Oncorhynchus mykiss)	> 10-100 mg/l (96 hr)
EC50	Daphnia magna (water flea)	> 10-100 mg/l (48 hr)
EC50	Scenedesmus subspicatus (algae)	> 10-100 mg/l (72 hr)
<b>Silicic Acid, sodium salt</b>		
CAS# 1344-09-8		
LC50	Fish (Brachydanio rerio)	> 1108 mg/l (96 hr)
EC50	Aquatic invertebrates: (Daphnia magna)	> 1700 mg/l (48 hr)
<b>Sodium citrate</b>		
CAS# 68-04-2		
LC50	Fish (Poecilia reticulata)	18000 -32000 mg/l (96 hr)
EC50	Daphnia magna (water flea)	5600 - 10000 mg/l (48 hr)
EC50	Fresh water algae	18000 -32000 mg/l (96 hr)

**Persistence and degradability:** Readily biodegradable**Bioaccumulative potential:** Not expected.**Mobility in soil:** Not expected.**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Instructions:** Do not allow product to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulations.**Wastes from residues / unused products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated pack- Empty remaining contents. Dispose of as unused product.  
aging:

## 14. TRANSPORT INFORMATION

**DOT:** Not regulated  
**UN number:**  
**Proper shipping name:**  
**Transport hazard class:**  
**Packing group:**  
**Special precautions for user:**

## 15. REGULATORY INFORMATION

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

### US federal regulations

#### CERCLA Hazardous Substance List (40 CFR 302.4)

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard Categories** Immediate hazard - Yes  
 Delayed hazard - No  
 Fire hazard - No  
 Pressure hazard - No  
 Reactivity hazard - No

SARA 302 Extremely hazardous substance:

Not listed

SARA 311/312 Hazardous chemical

Not listed

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US California Proposition 65

Not listed.

## 16. OTHER INFORMATION

NFPA (National Fire Protection Association) Rating:

Health 1 / Fire 0 / Reactivity 0

**AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE.  
 FOR INDUSTRIAL USE ONLY!!!!!!  
 END OF REPORT**

The information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this SDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation. The information and recommendations provided in this Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical

condition, other than those noted in this Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

**REASON FOR REVISION:** Updated for component information – all sections

**DATE ISSUED:** 05/01/17

**DATE REVISED:** 11/06/17