



Safety Data Sheet

SURGICAL INSTRUMENTS LOW SUDS DETERGENT

Section 1. Identification

Product Identifier SURGICAL INSTRUMENTS LOW SUDS DETERGENT
Synonyms MDS88LFD25CM; MSD_SDS0147
Manufacturer Stock MDS88LFD25CM
Numbers

Recommended use Super Concentrate Cleaning Agent
Uses advised against Use only as directed.

Manufacturer Contact
Address Medline Industries, Inc.
3 Lakes Drive
Northfield, IL, 60093
USA

Phone
(800) 633-5463

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification ACUTE TOXICITY - DERMAL - Category 4
ACUTE TOXICITY - ORAL - Category 5
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2B
SKIN CORROSION/IRRITATION - Category 2

Signal Word Warning

Pictogram



Hazard Statements

Causes eye irritation
Causes skin irritation
Harmful in contact with skin
May be harmful if swallowed

Precautionary Statements

Response

Call a poison center/doctor/if you feel unwell.
Get medical advice/attention if you feel unwell.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
In case of fire: Use CO₂, dry chemical, or foam to extinguish.
Take off contaminated clothing and wash it before reuse.
Take off immediately all contaminated clothing and wash it before reuse.

Prevention

Do not handle until all safety precautions have been read and understood.
Wash affected area thoroughly after handling.
Wear protective gloves and eye protection.
Wear protective gloves/protective clothing.

Storage

Do not store above 86°F (30°C).
Store in a dry place
Store in well-ventilated place.

Disposal

Dispose according to all local, state and federal regulations.

Ingredients of unknown toxicity

N.D.

Hazards not Otherwise Classified

Not determined.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
102-71-6	Ethanol, 2,2',2''-nitrotris-	Proprietary %
73772-46-0	1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxooctyl)amino]-, inner sa	Proprietary %

*The exact percentage is a trade secret.

Section 4. First-Aid Measures

Eye Contact:	Immediately flush with plenty of water. Remove any contact lenses, continue flushing for several minutes and call physician immediately.
Skin Contact:	Wash off immediately with plenty of water for several minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.
Inhalation:	Move to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician or Poison Control Center.
Ingestion:	Rinse mouth. Drink large amounts of water. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.
Symptoms:	Skin contact can lead to drying, itching, stinging and irritation. Exposed individuals may experience eye tearing, redness and discomfort.
Note to Physician:	Treat symptomatically

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	In case of fire, use Water, Carbon Dioxide (CO ₂), Foam, Dry Chemical
Unsuitable Extinguishing Media	N.D.
Specific hazards arising from the chemical:	Not flammable.
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>Personal Precautions: Use personal protective equipment as required.</p> <p>For Emergency Responders: Restrict access to spill area. Ventilate the area.</p> <p>Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.</p>
Methods and Materials for Containment and Cleaning up:	<p>Methods for Containment: Prevent further leakage or spillage if safe to do so.</p> <p>Methods for Cleaning up: Flush small spills with water. Dike to collect large liquid spills.</p>

Section 7. Handling and Storage

Precautions for Safe Handling:	<p>Advice on Safe Handling: Do not handle until all safety precautions have been read and understood.</p>
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Wash hands thoroughly after handling. May be harmful in contact with skin. Wear protective gloves. Do not eat, drink or smoke when using this product. Keep out of the reach of children and pets.

Conditions for Safe Storage, Including any Incompatibilities:

Storage Conditions:
Keep container tightly closed and store in a dry, cool and well ventilated place away from incompatible materials. Do not store above 86°F (30°C).

Incompatible Materials:
Avoid contact with strong acids, oxidizers and alkalis.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Ethanol, 2,2',2"-nitrilotris-	TWA: 5 mg/m3	N/A	N/A
	1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxooctyl)amino]-, inner sa	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves, Face Shield

Exposure Guidelines:

See above occupational exposure limits.

Appropriate Engineering Controls:

Eyewash stations.

Individual protection measures, such as personal protective equipment:

Eye/Face Protection:

Wear goggles, chemical safety glasses or a face protection shield.

Skin and Body Protection

Chemical resistant, non-latex and impermeable gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection:

Under normal conditions a respirator is not normally required. A mask or respirator may be used if vapor concentration is high.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practices.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Pale yellow Liquid
Odor	Non-specific
Odor Threshold	N.D.
Solubility	Completely Soluble
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.

Specific Gravity	1.04 - 1.05 (60°F/15.5°C)
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not flammable
FP Method	N.D.
pH	8.0-9.0 (77°F/25°C)
Melting Point	<32°F/<0°C
Boiling Point	217°F/102.7°C
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	<1
Flammability	N/A-Liquid
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.D.
Vapor Density	>1

Explosive Properties: Not explosive.

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions.
 Chemical Stability: Stable under recommended storage conditions.
 Possibility of Hazardous Reactions: None under normal processing.
 Reactions:
 Reactivity: Hazardous Polymerization will not occur.
 Conditions to avoid: None under normal processing.
 Incompatibility (Materials to Avoid) Avoid contact with strong acids, oxidizers and alkalis.
 Hazardous Decomposition Products: None known.

Section 11. Toxicological Information

Route(s) of Exposure: Eye Contact. Skin Contact. Inhalation. Ingestion.

Information on likely routes of exposure: Eye contact:
 Causes eye irritation.

Skin contact:
 Causes mild skin irritation.

Inhalation:
 Avoid breathing vapors or mists.

	Ingestion: Do not taste or swallow.
Component Information:	Chemical name: Triethanolamine CAS-No. 102-71-6 Oral LD50: 5000 mg/kg (Rat) Dermal LD50: 2000 mg/kg (Rabbit) Inhalation LC50: N.A.
Delayed and immediate effects as well as chronic effects from short & long term exposure:	Carcinogenicity: The product as a whole has not been tested. Chemical Name: Triethanolamine CAS-No. 102-71-6 ACGIH: A4 IARC: Group 3 NTP: N.A. OSHA: N.A. ACGIH (The American Conference of Governmental Industrial Hygienists) A4 - Not Classifiable as a Human Carcinogen. IARC (International Agency for Research on Cancer) Group 3 - Not Carcinogenic to Humans.
Numerical Measures of Toxicity:	N.D.

Section 12. Ecological Information

Ecotoxicity:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Chemical Name: Triethanolamine CAS-No. 102-71-6 Algae/aquatic plants: Known Toxin Fish: Known Toxin Toxicity to microorganisms: No information Crustacea: Known Toxin
Persistence and degradability:	N.D.
Bioaccumulation:	N.D.
Mobility:	Chemical Name: Triethanolamine CAS-No. 102-71-6 Partition Coefficient: -1.00
Other adverse effects:	N.D.

Section 13. Disposal

Waste Treatment Methods: Disposal of Wastes:
Dispose according to all local, state and federal regulations.

Contaminated Packaging:
Dispose according to all local, state and federal regulations.

Chemical Name:
Borax CAS-No. 1303-96-4
California Hazardous Waste Status: Toxic

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not Regulated
DOT Classification	Not Regulated
Packing Group	Not Regulated

Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	N.A.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	Triethanolamine
Pennsylvania Right to Know Components:	Triethanolamine
Rhode Island Right to Know Components:	Triethanolamine

Section 16. Other Information

Revision Date	11/21/2017
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
HMIS (U.S.A.): Health Hazard	N.D.
HMIS (U.S.A.): Flammability	N.D.
HMIS (U.S.A.): Physical Hazard	N.D.

HMIS (U.S.A.): Personal Protection N.D.

National Fire Protection Association (U.S.A): Health Hazard 1

National Fire Protection Association (U.S.A): Flammability 0

National Fire Protection Association (U.S.A): Instability Hazard 0

National Fire Protection Association (U.S.A): Special Hazard N.D.

Additional Information The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees