

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.21.2016

Revision : 03.21.2016

Trade Name: Ledizolv**I Identification of the substance/mixture and of the supplier****I.1 Product identifier****Trade Name:** Ledizolv**Synonyms:****Product number:** Ledizolv**I.2 Application of the substance / the mixture :** Cleaning material/Detergent**I.3 Details of the supplier of the Safety Data Sheet****Manufacturer**LSZ, Inc.
30 Glenn Street
White Plains, NY 10603
1-914-948-4040**Supplier**

Not Applicable

Emergency telephone number:**ChemTel Inc**

North America: 1-800-255-3924

International: 01-813-248-0585

2 Hazards identification**2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:Tetrasodium EDTA
Hydroxyacetic Acid
Alcohol ethoxylate
Citric acid
1-aminopropan-2-ol**2.2 Label elements:**

Skin irritation, category 2.

Eye irritation, category 2A.

Hazard pictograms:**Signal word:** Warning**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents and container as instructed in Section 13.

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Trade Name: Ledizolv**Additional information:** None.**Hazard description****Hazards Not Otherwise Classified (HNOC):** None**Information concerning particular hazards for humans and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients**3.1 Chemical characterization :** None**3.2 Description :** None**3.3 Hazardous components (percentages by weight)**

Identification	Chemical Name	Classification	Wt. %
CAS number: 84133-50-6	Alcohol Ethoxylate	Skin Irrit. 2 ; H315 Eye Dam. 1; H318	2-7
CAS number: 77-92-9	Citric acid	Eye Irrit. 2; H319	4-12
CAS number: 79-14-1	Hydroxyacetic Acid	Acute Tox. 4; H303 Skin Corr. 1B; H314	2-7
CAS number: 78-96-6	1-aminopropan-2-ol	Acute Tox. 4; H313 Skin Corr. 1B; H314 Eye Dam. 1; H318	5-14
CAS number: 64-02-8	Tetrasodium EDTA	Acute Tox. 4; H303 Eye Dam. 1; H318	1-5

3.4 Additional Information : None.**4 First aid measures****4.1 Description of first aid measures****General information:** None.**After inhalation:**

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

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Remove contact lens(es) if able to do so during rinsing.
Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly.
Seek medical attention if irritation, discomfort, or vomiting persists.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None**5.2 Special hazards arising from the substance or mixture :**

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters**Protective equipment:**

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures :**

Ensure adequate ventilation.
Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None**7 Handling and storage****7.1 Precautions for safe handling :**

Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

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Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

8 Exposure controls/personal protection**8.1 Control parameters :**

Not needed under normal conditions

8.2 Exposure controls**Appropriate engineering controls:**

Eye wash or sink should be available in the given area in case of first aid.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	Yellow liquid	Explosion limit lower: Explosion limit upper:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	Vapor pressure at 20°C:	Not determined or not available.
Odor threshold:	Not determined or not available.	Vapor density:	Not determined or not available.
pH-value:	5.5	Relative density:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	Solubilities:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	Partition coefficient (n-octanol/water):	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	Auto/Self-ignition temperature:	Not determined or not available.

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Evaporation rate:	Not determined or not available.	Decomposition	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.	Viscosity:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity

- 10.1 Reactivity :** None
- 10.2 Chemical stability :** None
- 10.3 Possibility hazardous reactions :** None
- 10.4 Conditions to avoid :** None
- 10.5 Incompatible materials :** None
- 10.6 Hazardous decomposition products :** None

11 Toxicological information**11.1 Information on toxicological effects :****Acute Toxicity:****Oral:**

: LD50 > 5,000 mg/kg rat - Product .

Chronic Toxicity: No additional information.**Skin corrosion/irritation:**

Hydroxyacetic Acid: Rabbit: Corrosive .

1-aminopropan-2-ol: Rabbit: mild skin irritation - 24h .

Serious eye damage/irritation:

Hydroxyacetic Acid: Rabbit: Severe eye irritation .

Alcohol ethoxylate: Risk of serious damage to eyes.

1-aminopropan-2-ol: Rabbit: Severe eye irritation - 24h .

Respiratory or skin sensitization: No additional information.**Carcinogenicity:** No additional information.**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.**NTP (National Toxicology Program):** None of the ingredients are listed.**Germ cell mutagenicity:** No additional information.**Reproductive toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:** No additional information.

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Trade Name: Ledizolv**I2 Ecological information****I2.1 Toxicity:**

Alcohol ethoxylate: Fish, LC50 - Pimephales promelas (fathead minnow) - 3.2 – 3.6 mg/l - 96 h.

Alcohol ethoxylate: Aquatic invertebrates, LC50 - Daphnia magna (Water flea) – 4.1-7.3 mg/l - 48h.

Hydroxyacetic Acid: Fish, LC50 - Danio rerio (zebra fish) - 5,000 mg/l - 96 h.

Alcohol ethoxylate: Bacteria, IC50 - Bacteria - > 1,000 mg/l - 16 h. Citric acid: Fish, Leuciscus idus melanotus - 440 mg/l - 48h.

1-aminopropan-2-ol: Fish, LC50 - Carassius auratus (goldfish) - 210 mg/l - 96 h.

Citric acid: Aquatic invertebrates, Daphnia magna (Water flea) - 1,535 mg/l - 24 h.

I2.2 Persistence and degradability: No additional information.**I2.3 Bioaccumulative potential:** No additional information.**I2.4 Mobility in soil:** No additional information.**General notes:** No additional information.**I2.5 Results of PBT and vPvB assessment:****PBT:** No additional information.**vPvB:** No additional information.**I2.6 Other adverse effects:** No additional information.**I3 Disposal considerations****I3.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)****Relevant Information:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

I4 Transport information

I4.1 UN Number: ADR, ADN, DOT, IMDG, IATA	None						
I4.2 UN Proper shipping name: ADR, ADN, DOT, IMDG, IATA	None						
I4.3 Transport hazard classes: ADR, ADN, DOT, IMDG, IATA	<table> <tr> <td>Class:</td> <td>None</td> </tr> <tr> <td>Label:</td> <td>None</td> </tr> <tr> <td>LTD.QTY:</td> <td>None</td> </tr> </table>	Class:	None	Label:	None	LTD.QTY:	None
Class:	None						
Label:	None						
LTD.QTY:	None						
US DOT Limited Quantity Exception:	None						
Bulk:	Non Bulk:						
RQ (if applicable): None	RQ (if applicable): None						
Proper shipping Name: None	Proper shipping Name: None						

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Hazard Class: None Packing Group: None Marine Pollutant (if applicable): No additional information. Comments: None	Hazard Class: None Packing Group: None Marine Pollutant (if applicable): No additional information. Comments: None
I4.4 Packing group: ADR, ADN, DOT, IMDG, IATA	None
I4.5 Environmental hazards :	None
I4.6 Special precautions for user: Danger code (Kemler): EMS number: Segregation groups:	None None None None
I4.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.	
I4.8 Transport/Additional information: Transport category: Tunnel restriction code: UN "Model Regulation":	 None None None

I5 Regulatory information**I5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.****North American****SARA****Section 313 (specific toxic chemical listings):** None of the ingredients are listed.**Section 302 (extremely hazardous substances):** None of the ingredients are listed.**CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable****Spill Quantity:** None of the ingredients are listed.**TSCA (Toxic Substances Control Act):****Inventory:** All ingredients are listed.**Rules and Orders:** Not applicable.**Proposition 65 (California):****Chemicals known to cause cancer:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.**Canadian****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

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H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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NFPA: 1-0-0

HMIS: 1-0-0