



Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: D-Lime-X

1 Identification of the substance/mixture and of the company/undertaking

• 1.1 Product identifier

- Trade name: D-Lime-X ST-0206
- Article number: AM80

• 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

• Application of the substance / the preparation Foodservice limescale remover

Product dilution information: Mix 4 fl. oz. (ml) with 1 gallon (3.8 L) of water.

• 1.3 Details of the supplier of the Safety Data Sheet


- Manufacturer/Supplier:
Stearns Packaging Corporation
4200 Sycamore Avenue (53714)
PO Box 3216
Madison, WI 53704-0216
Phone: 800-655-5008
Fax: 1-608-246-5149
Email: stearns@stearnspkg.com
Website: www.stearnspkg.com

- 1.4 Emergency telephone number:
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

• 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

Product as SOLD	Product at USE DILUTION
 GHS05 Skin Corr. Irrit. 1C, Eye Dam. 1 H314+H318 Causes severe skin burns and serious eye damage.	Not classified. Not classified.

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC

• Classification system:


The classification is according to the latest editions of the EU-lists 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.

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• 2.2 Label elements	
Product as SOLD	Product at USE DILUTION
• Labeling according to Regulation (EC) No 1272/2008	
The product is classified and labeled according to the CLP regulation.	The mixture does not meet the criteria for classification.
• Hazard pictograms	
 GHS05	None
• Signal word Danger	None
• Hazard-determining components of labeling:	
glycolic acid	Not applicable.
• Hazard statements	
H314+H318 Causes severe skin burns and serious eye damage	Avoid contact with eyes.
• Precautionary statements	
P280 Wear protective gloves/ protective clothing / eye protection. P264 Wash hands thoroughly after handling. P260 Do not breathe mists. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310: Immediately call a poison center / doctor. P303+P361+P353+P363: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. P310: Immediately call a poison center / doctor. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310: Immediately call a poison center / doctor. P405: Store locked up. P501 Dispose of contents/container in accordance with local regulations.	Wear protective eyewear if eye contact is possible.

3 Composition/information on ingredients

• 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 127087-87-0	nonylphenol polyethylene glycol ether  Xi R41  Eye Dam. 1, H318	<8%
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3 Composition/information on ingredients

• 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 79-14-1 EINECS: 201-180-5	glycolic acid  C R34;  Xn R22  Skin Corr. 1B, H314; Eye Dam. 1, H318	<20%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

• 4.1 Description of first aid measures

Product as SOLD	Product at USE DILUTION
<ul style="list-style-type: none"> • After inhalation: Supply fresh air; consult doctor in case of complaints. • After skin contact: Wash with water and rinse thoroughly. If skin irritation continues consult a doctor. • After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor. • After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. 	<p>No special measures required. Treat symptomatically.</p> <p>No known effect after skin contact. Rinse with water for a few minutes.</p> <p>No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.</p> <p>Get medical attention if symptoms occur.</p>
<ul style="list-style-type: none"> • 4.2 Most important symptoms and effects both acute and delayed Strong irritant with the danger of severe eye injury. Irritant to skin and mucous membranes. Gastric or intestinal disorders. Gastric or intestinal disorders. 	No known effects.
<ul style="list-style-type: none"> • Hazards Danger of severe eye injury. 	No known effects.
<ul style="list-style-type: none"> • 4.3 Indication of any immediate medical attention and special treatment needed 	
No further relevant information available.	No further relevant information available.

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5 Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Product as SOLD	Product at USE DILUTION
Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation	Use personal protective equipment as required.

• 6.2 Environmental precautions:

Dilute with plenty of water.	Dilute with plenty of water.
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• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Clean the affected area carefully; suitable cleaners are: Warm water	Large Spills: Flush area with water. Prevent entry into waterways. Small Spills: Wipe up with absorbent material.
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• 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
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7 Handling and storage

• 7.1 Precautions for safe handling

Product as SOLD	Product at USE DILUTION
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	Wash hands thoroughly after handling.

• Information about fire - and explosion protection:

No special measures required.	No precautions necessary.
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• 7.2 Conditions for safe storage, including any incompatibilities

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Product as SOLD	Product at USE DILUTION
• Storage:	
• Requirements to be met by storerooms and receptacles:	
Avoid storage near extreme heat, ignition sources or open flame. Unsuitable material for receptacle: aluminium.	Avoid storage near extreme heat, ignition sources or open flame. Unsuitable material for receptacle: aluminium.
• Information about storage in one common storage facility:	
Store away from foodstuffs. Store away from oxidizing agents.	Store away from foodstuffs. Store away from oxidizing agents.
• Further information about storage conditions:	
Store in cool, dry conditions in well sealed receptacles.	No storage precautions necessary.
• 7.3 Specific end use(s)	
No further relevant information available.	

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.



Product as SOLD	Product at USE DILUTION
• 8.1 Control parameters	
• Ingredients with limit values that require monitoring at the workplace:	
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • DNELs No further relevant information available. • PNECs No further relevant information available. • Additional information: The lists valid during the making were used as basis.	Not applicable.
• 8.2 Exposure controls	
• Personal protective equipment:	
• General protective and hygienic measures:	
The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
• Respiratory protection:	
Not necessary if room is well-ventilated. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable. NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.	Not necessary if room is well-ventilated. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable. NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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Product as SOLD	Product at USE DILUTION
• Protection of hands:	
<p>Avoid direct contact with the chemical/ the product/ the preparation by organizational measures. Use gloves constructed of chemical resistant material such as heavy nitrile rubber.</p> <p> Protective gloves</p> <p>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.</p>	No protective equipment is needed under normal conditions.
• Material of gloves	
<p>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p>	No protective equipment is needed under normal conditions.
• Penetration time of glove material	
<p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>	No protective equipment is needed under normal conditions.
• For the permanent contact gloves made of the following materials are suitable: Rubber gloves	
• Eye protection:	
<p>Contact lenses should not be worn.</p> <p> Tightly sealed goggles</p>	No protective equipment is needed under normal conditions.
• Body protection:	
<p>Protective work clothing.</p>	No protective equipment is needed under normal conditions.
• Limitation and supervision of exposure into the environment	
No further relevant information available.	No further relevant information available.
• Risk management measures	
<p>See Section 7 for additional information. No further relevant information available.</p>	<p>See Section 7 for additional information. No further relevant information available.</p>

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9 Physical and chemical properties

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical and chemical properties		
• General Information		
• Appearance:		
Form:	Liquid	Liquid
Color:	Amber	Clear
• Odor:	Tart	Odorless
• Odor threshold:	Not determined.	Not determined.
• pH-value at 25 °C:	1.5 + / - 0.5	5.0 - 5.5
• Change in condition		
Melting point/Melting range:	Undetermined.	Undetermined.
Boiling point/Boiling range:	>212 °F / 100 °C	>212 °F / 100 °C
• Flash point:	Not available	Not available
• Flammability (solid, gaseous):	Not applicable.	Not applicable.
• Ignition temperature:	Not determined.	Not determined.
• Decomposition temperature:	Not determined.	Not determined.
• Self-igniting:	Product is not self-igniting.	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.	Product does not present an explosion hazard.
• Explosion limits:		
Lower:	Not determined.	Not determined.
Upper:	Not determined.	Not determined.
• Vapor pressure at 20 °C:	23 hPa	Not determined.
• Density at 20 °C:	1.069 g/cm ³	Not determined.
• Relative density	Not determined.	Not determined.
• Vapor density	Not determined.	Not determined.
• Evaporation rate	Not determined.	Not determined.
• Solubility in / Miscibility with water:	Fully miscible.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity:		
Dynamic at 20 °C:	<100 mPas	Not determined.
Kinematic:	Not determined.	Not determined.
• Solvent content:		
Organic solvents:	0.0 %	0.0 %
Water:	80.0 %	Not determined
Solids content:	20.0 %	Not determined
• 9.2 Other information	No further relevant information available.	No further relevant information available.

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10 Stability and reactivity

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Exothermic reaction with acids.
Reacts with strong oxidizing agents.
- **10.4 Conditions to avoid** Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.

11 Toxicological information

• 11.1 Information on toxicological effects

Product as SOLD	Product at USE DILUTION						
• Acute toxicity: >5,000 mg/kg	Non-toxic at use-dilution.						
• LD/LC50 values relevant for classification:	• LD/LC50 values relevant for classification: No known significant effects or critical hazards.						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">79-14-1 glycolic acid</td> </tr> <tr> <td style="width: 33%; text-align: center;">Oral</td> <td style="width: 33%; text-align: center;">LD50</td> <td style="width: 33%; text-align: center;">2040 mg/kg (rat)</td> </tr> </table>	79-14-1 glycolic acid			Oral	LD50	2040 mg/kg (rat)	
79-14-1 glycolic acid							
Oral	LD50	2040 mg/kg (rat)					
• Primary irritant effect:							
• on the skin: Irritant to skin and mucous membranes. • on the eye: Strong irritant with the danger of severe eye injury. • Sensitization: No sensitizing effects known.	No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.						
• Additional toxicological information:							
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:							
Irritant	Not classified						

12 Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

Product as SOLD	Product at USE DILUTION
The product contains materials that are harmful to the environment.	No data available.
• 12.2 Persistence and degradability The product is biodegradable. Significant residuals remain.	
• 12.3 Bioaccumulative potential No further relevant information available.	
• 12.4 Mobility in soil No further relevant information available.	

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Product as SOLD	Product at USE DILUTION
<ul style="list-style-type: none"> • Ecotoxicological effects: 	
<ul style="list-style-type: none"> • Remark: After neutralization toxicity cannot be recognized any longer. 	Non-toxic at use dilution.
<ul style="list-style-type: none"> • Additional ecological information: 	
<ul style="list-style-type: none"> • 12.5 Results of PBT and vPvB assessment 	
<ul style="list-style-type: none"> • PBT: Not applicable. 	Not applicable.
<ul style="list-style-type: none"> • vPvB: Not applicable. 	Not applicable.
<ul style="list-style-type: none"> • 12.6 Other adverse effects No further relevant information available. 	No further relevant information available.

13 Disposal considerations

• 13.1 Waste treatment methods	
Product as SOLD	Product at USE DILUTION
<ul style="list-style-type: none"> • Recommendation 	
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
<ul style="list-style-type: none"> • Uncleaned packaging: 	
<ul style="list-style-type: none"> • Recommendation: Disposal must be made according to local regulations. 	Not applicable.
<ul style="list-style-type: none"> • Recommended cleansing agents: Water, if necessary together with cleansing agents. 	Not applicable.

14 Transport information

Product as SOLD	
<ul style="list-style-type: none"> • 14.1 UN-Number 	
<ul style="list-style-type: none"> • DOT, ADR, ADN, IMDG, IATA 	UN1760
<ul style="list-style-type: none"> • 14.2 UN proper shipping name 	
<ul style="list-style-type: none"> • DOT, ADR, ADN, IMDG, IATA 	UN1760, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (containing glycolic acid), 8, III, Ltd. Qty.
<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) 	
<ul style="list-style-type: none"> • DOT-AIR or OCEAN, ADR, ADN, IMDG, IATA 	8
<ul style="list-style-type: none"> • Class 	8
<ul style="list-style-type: none"> • DOT-ROAD or RAIL 	N/A
<ul style="list-style-type: none"> • Class 	N/A
<ul style="list-style-type: none"> • Label 	Ltd. Qty. diamond
<ul style="list-style-type: none"> • 14.4 Packing group 	
<ul style="list-style-type: none"> • DOT, ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> • 14.5 Environmental hazards: 	
<ul style="list-style-type: none"> • Marine pollutant: 	No

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Product as SOLD

• **14.6 Special precautions for user** Not applicable.

• **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

Product at USE DILUTION Not intended for transport.

15 Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **United States (USA)**

• **SARA**

Product as SOLD	Product at USE DILUTION
• Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	
All ingredients are listed.	All ingredients are listed.
• Proposition 65 (California):	
• Chemicals known to cause cancer:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	None of the ingredients is listed.
• Carcinogenic Categories	
• EPA (Environmental Protection Agency)	
None of the ingredients is listed.	None of the ingredients is listed.
• IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	None of the ingredients is listed.
• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	None of the ingredients is listed.
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	None of the ingredients is listed.

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Product as SOLD	Product at USE DILUTION
• OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	None of the ingredients is listed.
• Canada	
• Canadian Domestic Substances List (DSL)	
All ingredients are listed.	All ingredients are listed.
• Canadian Ingredient Disclosure list (limit 0.1%)	
79-14-1	glycolic acid
127087-87-0	nonylphenol polyethylene glycol ether
	Not applicable.
	Not applicable.
• Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients is listed.	None of the ingredients is listed.

- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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- R34 Causes burns.
 - R36 Irritating to eyes.
 - R38 Irritating to skin.
 - R41 Risk of serious damage to eyes

SDS File Name: AM80 D-LIME-X SDS

• Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)

• Sources

SDS Prepared by:
 JBE/JER

Revision: 11/08/2017

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