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

Trade name: Mark 11 Disinfectant Cleaner

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

• **1.1 Product identifier**

• **Trade name:** Mark 11 ST-735, ST-738, ST-740, ST-740E, ST-745, ST-747, ST-1375, ST-1394, ST-2020, 2309951, 2309043, 2307384, 2374007, 2313750,

• **Article number:** SL35, 5419235 **EPA Registration No.** 10324-93-3640

• **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** Disinfectant

Product dilution information: 0.5 fl. oz. (17.78 ml) per 1 quart (0.947 L.) of water for disinfection. (10 minute contact time)
0.5 fl. oz. (17.78 ml) per 1 quart (0.947 L.) of water for non-food contact sanitizing. (1 minute contact time)

• **1.3 Details of the supplier of the Safety Data Sheet**
Stearns Packaging Corporation
4200 Sycamore Avenue (53714)
PO Box 3216
Madison, WI 53704-0216
Phone: 800-655-5008
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 corrosion Eye Dam. 1 H318 Causes serious eye damage.	Not classified. Not classified.
GHS07 Skin Irrit. 2 H315 Causes skin irritation. Acute Tox. 4 H302 Harmful if swallowed.	No pictogram Eye Irrit. 2B, H320 Causes eye irritation

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

• **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.	The product has to be labeled 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 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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· **Additional information:**	
Concentrated product is corrosive as shown in this document. When diluted at least 1:1 (50% or less solution) with water, product is non-hazardous.	
• 2.2 Label elements	
• Labeling according to Regulation (EC) No 1272/2008	
Product as SOLD	**Product at USE DILUTION**
The product is classified and labeled according to the CLP regulation.	The mixture does not meet the criteria for classification.
• Hazard pictograms	
GHS05 GHS07	None
• Signal word Danger	Warning
• Hazard-determining components of labelling:	
Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride Didecyl Dimethyl Ammonium Chloride	Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride Didecyl Dimethyl Ammonium Chloride
• Hazard statements	
H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage.	H320 Causes eye irritation.
• Precautionary statements	
P280 Wear protective gloves/eye protection. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P302+P352 IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. P305+P351+P338+P310: 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 / doctor. P301+P312+P330 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.	Wash hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

3 Composition/information on ingredients

• 3.2 Mixtures

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

• Dangerous components:		
CAS: 68391-01-5	Alkyl Dimethyl Benzyl Ammonium Chloride C R34; Xn R22; Xi R41 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	2.0-3.0%

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CAS: 85409-23-0	Alkyl (C12-14) Dimethyl (ethylbenzyl) Ammonium Chloride C R34; Xn R22; Xi R41 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	2.0-3.0%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	Sodium Carbonate Xi R36 Eye Irrit. 2A, H319	<5%

• **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**
• **General information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.	No special measures required.
• **After inhalation:** Supply fresh air; consult doctor in case of complaints.	Remove victim to fresh air and keep comfortable for breathing.
• **After skin contact:** Immediately rinse with water. If skin irritation continues, consult a doctor.	Immediately rinse with water. 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.	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
• **After swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
• **4.2 Most important symptoms and effects, both acute and delayed** Irritant to skin and mucous membranes. Strong irritant with the danger of severe eye injury. Breathing difficulty Gastric or intestinal disorders.	No known effects.
• **Hazards** Danger of gastric perforation. Danger of severe eye injury. Danger of impaired breathing.	No known effects.
• **4.3 Indication of any immediate medical attention and special treatment needed**	
Treat skin and mucous membrane with antihistamine and corticoid preparations. If swallowed, gastric irrigation.	Treat symptomatically.

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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.
  Do not inhale explosion gases or combustion gases.
- **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**
Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	Use personal protective equipment as required.
• **6.2 Environmental precautions:**	
Do not allow to enter sewers/ surface or ground water.	Avoid contact of large amounts of spilled material and run off with soil and surface waterways.
• **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:	Large Spills: Flush area with water. Prevent entry into waterways. Small Spills: Wipe up with absorbent material.
• **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.

7 Handling and storage

• **7.1 Precautions for safe handling**	
Product as SOLD	**Product at USE DILUTION**
Use only in well ventilated areas. Prevent formation of aerosols. Avoid splashes or spray in enclosed areas.	No special measures required.
• **Information about fire - and explosion protection:**	
Keep ignition sources away - Do not smoke.	No special measures required.

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Product as SOLD	Product at USE DILUTION
• 7.2 Conditions for safe storage, including any incompatibilities	
• Storage:	
• Requirements to be met by storerooms and receptacles:	
Avoid storage near extreme heat, ignition sources or open flame.	Keep out of reach of children.
• Information about storage in one common storage facility:	
Store away from foodstuffs. Store away from oxidizing agents. Do not store together with acids.	No storage precautions necessary.
• Further information about storage conditions:	
Store in cool, dry conditions in well sealed receptacles. Protect from freezing.	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:	
Pregnant women should strictly avoid inhalation or skin contact. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.	Not required under normal conditions of use.
• Respiratory protection:	
Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.	A respirator is not required under normal and intended conditions of use.

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Product as SOLD	Product at USE DILUTION
• Protection of hands:	
Protective gloves 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.	No protective equipment is needed under normal conditions.
• Material of gloves	
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.	No protective equipment is needed under normal conditions.
• Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	No protective equipment is needed under normal conditions.
• For the permanent contact gloves made of the following materials are suitable:	
Neoprene gloves Butyl rubber, BR Nitrile rubber, NBR	No protective equipment is needed under normal conditions.
• Eye protection:	
Tightly sealed goggles	No protective equipment is needed under normal conditions.
• Body protection:	
Protective work clothing.	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	
See Section 7 for additional information. No further relevant information available.	No further relevant information available.

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:	Red	Light Red
• Odor:	Pleasant	Pleasant
• Odor threshold:	Not determined.	Not determined.
• pH-value at 20 °C:	11.25 ± 0.25 for concentrate	9.4 ± 0.5

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	Product as SOLD	Product at USE DILUTION
• Change in condition		
Melting point/Melting range:	Undetermined.	Not applicable.
Boiling point/Boiling range:	212 °F / 100 °C	100° C / 212° F
• Flash point:	Not applicable.	Not applicable.
• Flammability (solid, gaseous):	Not applicable.	Not applicable.
• Ignition temperature:	Not determined.	Not applicable.
• 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:	1.00 g/cm³	1.00 g/cm³
• Relative density	Not determined.	Not determined.
• Vapor density	Not applicable.	Not applicable.
• Evaporation rate	Not applicable.	Not applicable.
• Solubility in / Miscibility with water:	Fully miscible.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity:		
Dynamic:	1.4489 mm²/s (cSt) @ 22°C	Not determined.
Kinematic:	Not applicable.	Not determined.
• Solvent content:		
Organic solvents:	0.8 %	Not determined.
Water:	93.3 %	Not determined.
Solids	0.2 %	Not determined.
• 9.2 Other information	No further relevant information available.	No further relevant information available.

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**
  Reacts with oxidizing agents.
  Toxic fumes may be released if heated above the decomposition point.
  Contact with acids releases toxic gases.
- **10.4 Conditions to avoid**
  Keep ignition sources away - Do not smoke.
  Store away from oxidizing agents.
  Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:**
  Warning! Do not use together with other products. May release dangerous gases (chlorine).
  Contact with acids liberates toxic gases. Strong oxidizing agents.

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• **10.6 Hazardous decomposition products:**
Possible in traces.
Hydrogen chloride (HCl)
Carbon monoxide and carbon dioxide

11 Toxicological information

Product as SOLD	Product at USE DILUTION
• **11.1 Information on toxicological effects**	
• **Acute toxicity:**	
>1,000 mg/kg for male and female rats.	Non-toxic at use-dilution.
• **Primary irritant effect:**	
• **on the skin:**	
Irritant to skin and mucous membranes.	Non-hazardous at use-dilution.
• **on the eye:**	
Strong irritant with the danger of severe eye injury.	Non-hazardous at use-dilution.
• **Sensitization:** No sensitizing effects known.	No sensitizing effects known.

12 Ecological information

• **12.1 Toxicity**
• **Aquatic toxicity:** Toxic for aquatic organisms
• **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
• **12.3 Bioaccumulative potential** No further relevant information available.
• **12.4 Mobility in soil** No further relevant information available.
• **Additional ecological information:**
• **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.
Water Hazard Class (Self-classification) in the concentrate.
• **12.5 Results of PBT and vPvB assessment**
• **PBT:** Not applicable.
• **vPvB:** Not applicable.
• **12.6 Other adverse effects** No further relevant information available.

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13 Disposal considerations

• 13.1 Waste treatment methods	
Product as SOLD	**Product at USE DILUTION**
• **Recommendation**	
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
• **Uncleaned packaging:**	
• **Recommendation:** Disposal must be made according to official regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
• **Recommended cleansing agents:** Water, if necessary together with cleansing agents.	Water

14 Transport information

Product as SOLD	
• **14.1 UN-Number** • **DOT, ADR, ADN, IMDG, IATA**	N/A
• **14.2 UN proper shipping name** • **DOT, ADR, ADN, IMDG, IATA**	Disinfectants, NOI, liquid.
• **14.3 Transport hazard class(es)** • **DOT, ADR, ADN, IMDG, IATA** • **Class**	N/A
• **14.4 Packing group** • **DOT, ADR, IMDG, IATA**	N/A
• **14.5 Environmental hazards:** • **Marine pollutant:**	Yes
• **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.
• **UN "Model Regulation":**	Disinfectants, NOI, liquid
Product at USE DILUTION Not intended for transport.	

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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 355 (extremely hazardous substances):	
None of the ingredients is listed.	Not applicable.
• 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:		
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.		None of the ingredients is listed.
64-17-5	ethanol	

• 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)			
64-17-5	ethanol	1	None of the ingredients is listed.
• TLV (Threshold Limit Value established by ACGIH)			
64-17-5	ethanol	A3	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.
• OSHA-Ca (Occupational Safety & Health Administration)			
All ingredients are listed.			All ingredients are listed.

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• **Canada**

• **Canadian Domestic Substances List (DSL)**	
All ingredients are listed.	All ingredients are listed.

• **Canadian Ingredient Disclosure list (limit 0.1%)**		
64-17-5	ethanol	None of the ingredients is listed.

• **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.

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**

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

• **SDS File Name:** SL30 Mark 11 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

• **Sources**

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