Safety Data Sheet

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

Trade name: Mark 10

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

- **1.1 Product identifier**
- **Trade name:** Mark 10 ST-53
- **Article number:** SM10 **EPA Registration No.** 1839-51-3640
- **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** Hard-surface sanitizer
- **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**

GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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

C; Corrosive
R34: Causes burns.

- **Information concerning particular hazards for human 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 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.

- **2.2 Label elements**
- **Labeling according to Regulation (EC) No 1272/2008**
  The product is classified and labeled according to the CLP regulation.

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• **Hazard pictograms**

GHS05

• **Signal word** Danger

• **Hazard-determining components of labelling:**
Alkyl (C12-C14) Dimethyl (Ethylbenzyl) Ammonium Chloride
Alkyl (C12,C14,C16,C18) Dimethyl Benzyl Ammonium Chloride
Phosphoric acid

• **Hazard statements**
H302 Harmful if swallowed.
H314+H318 Causes severe burns and serious eye damage.

• **Precautionary statements**

P280	Wear protective gloves / protective clothing / eye protection.
P260	Do not breathe mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P303+P361+P353 P310+P363	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center / doctor. Wash contaminated clothing before reuse.
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+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center / doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

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

• **Dangerous components:**		
CAS: 7664-38-2 EINCS: 231-633-2	Phosphoric Acid, 75% by weight C R34; Xn R22; Xi R41; N R50 Skin Corr. 1C, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	<40%
CAS: 85409-23-0	Alkyl (C12-C14) Dimethyl (Ethylbenzyl) Ammonium Chloride C R34; Xn R22; Xi R37 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	<6%
CAS: 68391-01-5	Alkyl (C12,C14,C16,C18) Dimethyl Benzyl Ammonium Chloride C R35; Xn R22; Xi R41 Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	<6%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

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4 First-aid measures

- **4.1 Description of first aid measures**
- **General information:** Take effected persons out into the fresh air.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  Immediately rinse with water.
  Immediately remove any clothing soiled by product.
  If skin irritation continues, consult a doctor.
- **After eye contact:**
  Remove contact lenses if worn.
  Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
  Strong caustic effect on skin and mucous membranes.
  Gastric or intestinal disorders.
  Nausea
  Headache
  Dizziness
  Coughing
- **Hazards**
  Danger of severe eye injury.
  Danger of gastric perforation.
  Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  Monitor circulation, possible shock treatment.
  Medical supervision for at least 48 hours.
  If necessary oxygen respiration treatment.

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**
  During heating or in case of fire poisonous gases are produced.
- **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**
  Use respiratory protective device against the effects of fumes/dust/aerosol.
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Particular danger of slipping on leaked/spilled product.

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- **6.2 Environmental precautions:**
  Do not allow to enter sewers/ surface or ground water.
  Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable receptacles.
- **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.

7 Handling and storage

- **7.1 Precautions for safe handling**
  Prevent formation of aerosols.
  Store in cool, dry place in tightly closed receptacles.
  Avoid splashes or spray in enclosed areas.
  Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **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.
  Unsuitable material for receptacle: aluminium.
  Unsuitable material for receptacle: steel.
- **Information about storage in one common storage facility:**
  Store away from foodstuffs.
  Store away from oxidizing agents.
  Store away from reducing agents.
  Do not store together with acids.
- **Further information about storage conditions:**
  Keep container tightly closed.
  Protect from freezing.
- **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.
- **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.

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• **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.
Do not inhale gases / fumes / aerosols.
• **Respiratory protection:**
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.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.
• **Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• **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.
• **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.
• **For the permanent contact gloves made of the following materials are suitable:**
Neoprene gloves
Butyl rubber, BR
Nitrile rubber, NBR
• **Eye protection:**
Contact lenses should not be worn.


Safety glasses

• **Body protection:** Protective work clothing
• **Limitation and supervision of exposure into the environment**
No further relevant information available.
• **Risk management measures**
See Section 7 for additional information.
No further relevant information available.

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9 Physical and chemical properties

• 9.1 Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Liquid
Color:	Clear
• Odor:	Like aldehyde
• Odor threshold:	Not determined.
• pH-value at 20 °C:	<0.5 for concentrate
• Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
• Flash point:	>212 °F / >100 °C
• Flammability (solid, gaseous):	Not applicable.
• Ignition temperature:	Not determined.
• Decomposition temperature:	Not determined.
• Self-igniting:	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
• Vapor pressure at 20 °C:	23 hPa
• Density at 20 °C:	1.2 g/cm³
• Relative density	Not determined.
• Vapor density	Not determined.
• Evaporation rate	Not determined.
• Solubility in / Miscibility with water:	Fully miscible.
• Partition coefficient (n-octanol/water):	Not determined.
• Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• 9.2 Other information	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.

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• **10.3 Possibility of hazardous reactions**
Reacts with reducing agents.
Reacts with oxidizing agents.
Contact with bases releases toxic gases.
Contact with bases releases irritant gases.
Toxic fumes may be released if heated above the decomposition point.
Reacts with certain metals.
• **10.4 Conditions to avoid** Store away from oxidizing agents.
• **10.5 Incompatible materials:**
Warning! Do not use together with other products. May release dangerous gases (chlorine).
• **10.6 Hazardous decomposition products:**
Hydrocarbons
Carbon monoxide and carbon dioxide
Chlorine compounds
Ammonia

11 Toxicological information

•**11.1 Information on toxicological effects**
• **Acute toxicity:**

• LD/LC50 values relevant for classification		
68391-01-5 Alkyl (C12,C14,C16,C18) Dimethyl Benzyl Ammonium Chloride		
Oral	LD50	650 mg/kg (rat)

• **Primary irritant effect:**
• **on the skin:** Caustic effect on skin and mucous membranes.
• **on the eye:** Strong caustic effect.
• **Sensitization:** No sensitizing effects known.
• **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:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
• **Acute effects (acute toxicity, irritation and corrosivity):** Danger through skin absorption.

12 Ecological information

• **12.1 Toxicity**
• **Aquatic toxicity:** This product contains materials that are harmful to the environment.
• **12.2 Persistence and degradability** biodegradable
• **12.3 Bioaccumulative potential** No further relevant information available.
• **12.4 Mobility in soil** No further relevant information available.
• **Ecotoxical effects:**
• **Remark:** Harmful to algae
• **Additional ecological information:**

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• **General notes:**
This statement was deduced from products with similar structure or composition.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Do not allow product 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.
• **12.5 Results of PBT and vPvB assessment**
• **PBT:** Not applicable.
• **vPvB:** Not applicable.
• **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

• **13.1 Waste treatment methods**
• **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
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.
• **Uncleaned packaging:**
• **Recommendation:** Disposal must be made according to official regulations.
• **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

• **14.1 UN-Number** • **DOT, ADR, ADN, IMDG, IATA**	NA1760
• **14.2 UN proper shipping name** • **DOT: Air and water**	NA1760, compounds, cleaning liquid, (containing phosphoric acid), 8, PG III, Ltd Qty.
• **ADR**	
• **IMDG, IATA**	
• **14.3 Transport hazard class(es)**	
• **DOT: Road and rail**	
	
• **Class**	n/a
• **Label**	LTD. QTY.

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• ADR	
• IMDG, IATA	
• 14.4 Packing group **• DOT, ADR, IMDG, IATA**	III
• 14.5 Environmental hazards: **• Marine pollutant:**	No
• 14.6 Special precautions for user **• Danger Code:** **• EMS Number**	Warning: Corrosive Substances 80 F-A,S-B
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
• ADR	
• Limited quantities (LQ) **• Transport category** **• Tunnel restriction code**	5L 3 E
• UN "Model Regulation":	NA1760, compounds, cleaning liquid, (containing phosphoric acid), 8, PG III, Ltd Qty.

15 Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
• United States (USA)
• SARA

• Section 355 (extremely hazardous substances):
None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):
All ingredients are listed.

• Proposition 65 (California):

• Chemicals known to cause cancer:
None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

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• Proposition 65 (California):

• Chemicals known to cause cancer:
None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

• Carcinogenic Categories

• EPA (Environmental Protection Agency)
None of the ingredients is listed.

• IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)
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

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

R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

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SDS File Name: SM10 MARK 10 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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