



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.

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- **2.2 Label elements**
 - **Labeling according to Regulation (EC) No 1272/2008**

The product is classified and labeled according to the CLP regulation.

(Contd. on page 2)

Safety Data Sheet

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

Trade name: Mark 10

• Hazard pictograms

(Contd. from page 1)



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 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.
P310+P363
P305+P351+P338+ 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.
P310
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.

(Contd. on page 3)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 2)

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.

(Contd. on page 4)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 3)

- **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.

(Contd. on page 5)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 4)

• 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.

(Contd. on page 6)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 5)

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.

(Contd. on page 7)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 6)

- **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)
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• 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.

• Ecotoxicological effects:

• **Remark:** Harmful to algae

• **Additional ecological information:**

(Contd. on page 8)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 7)

• **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.

(Contd. on page 9)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 8)

• 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	Warning: Corrosive Substances
• Danger Code:	80
• EMS Number	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)	5L
• Transport category	3
• Tunnel restriction code	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.

(Contd. on page 10)

Safety Data Sheet

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

Trade name: Mark 10

(Contd. from page 9)

• **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.

(Contd. on page 11)

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

Trade name: Mark 10

SDS File Name: SM10 MARK 10 SDS

(Contd. from page 10)

• **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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Revision: 10/16/2017

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