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

STEARNS.

• 1.1 Product identifier

Trade name: Mark 10 Bathroom Cleaner

• Trade name: Mark 10 Bathroom Cleaner ST-734, ST-746	
Article number: SM10P	
• 1.2 Relevant identified uses of the substance or mixture a No further relevant information available.	nd uses advised against
Application of the substance / the preparation Hard surface	e cleaner for water scale and rust stains.
Product dilution information: 1.0 fl. oz. (29.57 ml) per 1 qua	rt of water
• 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	Not classified.
Skin Corr. 1B; Eye Dam. 1 H314 + H318 Causes severe skin burns and serious eye damage.	Not classified.
GHS07	GHS07
Acute Tox., Oral 4 H302 Harmful if swallowed.	Eye Dam./Irrit. 2A H319 Causes serious eye irritation.
Classification according to Directive 67/548/EEC or Directive 67/548/EEC	tive 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 mixture does not meet the criteria for classification.
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 information from technical literature and by information provided in the second secon	
	(Contd. on page 2

Trade name: Mark 10 Bathroom Cleaner

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 HSC 2012 regulation.	The product is classified and labeled according to the HSC 2012 regulation.	
Hazard pictograms		
GHS05 GHS07	GHS07	
Signal word Danger	Warning	
 Hazard-determining components of labelling: 		
Alkyl (C12-C14) Dimethyl (Ethylbenzyl) Ammonium Chloride Alkyl (C12,C14,C16,C18) Dimethyl Benzyl Ammonium Chloride Phosphoric Acid	Alkyl (C12-C14) Dimethyl (Ethylbenzyl) Ammonium Chlorid Alkyl (C12,C14,C16,C18) Dimethyl Benzyl Ammonium Chloride Phosphoric Acid	
Hazard statements		
H302 Harmful if swallowed. H314 + H318 Causes severe skin burns and serious eye damage.	H319 Causes serious eye irritation	
Precautionary statements		
 P280 Wear protective clothing/gloves/eye protection. P260 Do not breathe mist or spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P303+P361+P353 +P363+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center / doctor. 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 or doctor/ physician. P301+P312+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. 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 regulations. 	Wear eye protection. 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.	

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(Contd. from page 2)

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

• 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: Take effected persons out into the fresh air. 	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. Immediately remove any clothing soiled by product. If skin irritation continues, consult a doctor. 	If irritation occurs, rinse skin with water. If irritation persists get medical attention.	
• After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor.	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. 	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 Strong caustic effect on skin and mucous membranes. Gastric or intestinal disorders. Nausea Headache Dizziness Coughing 	No known effects.	
	(Contd. on page 4)	

Trade name: Mark 10 Bathroom Cleaner

(Contd. from page 3)

Product as SOLD	Product at USE DILUTION
• Hazards No known effects. Danger of severe eye injury. Danger of gastric perforation. Danger of impaired breathing. No known effects.	
• 4.3 Indication of any immediate medical attention and spe	ecial treatment needed
Monitor circulation, possible shock treatment. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment.	Treat symptomatically.

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 eme	ergency procedures
Product as SOLD	Product at USE DILUTION
Use respiratory protective device against the effects of fumes/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Particular danger of slipping on leaked/spilled product.	Use personal protective equipment as required.
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.	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). Dispose contaminated material as waste according to item 13. Send for recovery or disposal in suitable receptacles.	Large Spills: Flush area with water. Prevent entry into water- ways. 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.

Trade name: Mark 10 Bathroom Cleaner

(Contd. from page 4)

7.1 Precautions for safe handling		
Product as SOLD	Product at USE DILUTION	
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.	No special measures required.	
 Information about fire - and explosion protection: 		
No special measures required.	No special measures required.	
• 7.2 Conditions for safe storage, including any incompation	bilities	
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.	Keep out of reach of children.	
Information about storage in one common storage facili	ty:	
Store away from foodstuffs. Store away from oxidizing agents. Store away from reducing agents. Do not store together with acids.	No storage precautions necessary.	
Further information about storage conditions:		
Keep container tightly closed. Protect from freezing.	No storage precautions necessary.	

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 tworkplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Not applicable • DNELs No further relevant information available. • PNECs No further relevant information available. • PNECs No further relevant information available. • Additional information: The lists valid during the making were used as basis.

	(Contd. from pa
Product as SOLD	Product at USE DILUTION
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.	Not required under normal conditions of use.
Respiratory protection:	
Use suitable respiratory protective device in case of insuf- ficient 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.	A respirator is not required under normal and intended conditions of use.
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.	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

	(Contd. from page
Product as SOLD	Product at USE DILUTION
Eye protection:	
Contact lenses should not be worn.	Contact lenses should not be worn.
Safety glasses	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 en	vironment
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 a	ind chemical properties	
General Information		
• Appearance:		
Form:	Liquid	Liquid
Color: • Odor:	Clear Like aldehyde	Clear Like aldehyde
Odor threshold:	Not determined.	Not determined.
	Not determined.	Not determined.
• pH-value at 20 °C:	<0.5 for concentrate	2.0 at use-dilution
Change in condition		
Melting point/Melting range:	Undetermined.	Not applicable.
Boiling point/Boiling range:	Undetermined.	Undetermined.
Flash point:	>212 °F / >100 °C	Not determined.
 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 explo-	Product does not present an explosion
	sion hazard.	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:	1.2 g/cm ³	
Relative density	Not determined.	Not determined.
Vapor density	Not applicable.	Not applicable.
 Evaporation rate 	Not applicable.	Not applicable.

Trade name: Mark 10 Bathroom Cleaner

(Contd. from page 7)

	Product as SOLD	Product at USE DILUTION
• Density at 20 °C:	0.9992 g/cm³ (8.338 lbs/gal)	1.00 g/cm ³
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:	Not determined.	Not determined.
Kinematic:	Not determined.	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. Keep away from heat and direct sunlight. • 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. 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

Product as SOLD		uct as SOLD	Product at USE DILUTION	
11.1 Inform	ation on toxi	cological effects		
Acute toxic	ity:			
Estimated C	Oral Toxicity	of the Mixture:		
LD50, Oral, rat, 1,513 mg/kg		/kg	Not determined.	
LD/LC50 values relevant for classification		ant for classification	Non-toxic at use-dilution.	
	5 Alkyl (C12,0 m Chloride	C14,C16,C18) Dimethyl Benzyl		
Oral	LD50	650 mg/kg (rat)		

Trade name: Mark 10 Bathroom Cleaner	
	(Contd. from page 8)
Product as SOLD	Product at USE DILUTION
Primary irritant effect:	
• on the skin:	
Caustic effect on skin and mucous membranes.	Non-hazardous at use-dilution.
• on the eye:	
Strong caustic effect.	Non-hazardous at use-dilution.
Sensitization: No sensitizing effects known.	No sensitizing effects known.
Additional toxicological information:	
The product shows the following dangers according to the calc Classification Guidelines for Preparations as issued in the late	
Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.	Not classified No known significant effects or critical hazards.
Acute effects (acute toxicity, irritation and corrosivity):	
Danger through skin absorption.	Non-hazardous at use-dilution.
12 Ecological information	
 12.1 Toxicity Aquatic toxicity: This product contains materials that are harman to the second degradability biodegradable 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: General notes: This statement was deduced from products with similar structure. Water hazard class 2 (German Regulation) (Self-assessment): Information available or unrelevant to reach ground water, water course or set Due to available data on eliminability/decomposition and bioacce the environment is unlikely. 	e or composition. hazardous for water neutralized. wage system.

- PBT: Not applicable.
 vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods	
Product as SOLD	Product at USE DILUTION
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.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
regulations.	(Contd. on page :

Trade name: Mark 10 Bathroom Cleaner (Contd. from page 9) 13 Disposal considerations **Product as SOLD Product at USE DILUTION** Uncleaned packaging: Recommendation: Disposal must be made according to Diluted product can be flushed to sanitary sewer. Discard official regulations. empty container in trash. 14 Transport information Product as SOLD • 14.1 UN-Number UN3264 DOT, ADR, ADN, IMDG, IATA 14.2 UN proper shipping name UN3264, corrosive liquid, acidic, inorganic (containing 20-30% For air and water shipment phosphoric acid), 8, PG III, Ltd Qty. • ADR UN3264, corrosive liquid, acidic, inorganic (containing 20-30% phosphoric acid), 8, PG III, Ltd Qty. IMDG, IATA UN3264, corrosive liquid, acidic, inorganic (containing 20-30% phosphoric acid), 8, PG III, Ltd Qty. • 14.3 Transport hazard class(es) • DOT For road or rail shipment N/A Class Label LTD. QTY. • ADR • IMDG, IATA 14.4 Packing group DOT. ADR. IMDG. IATA Ш • 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 Е • UN "Model Regulation": UN3264, corrosive liquid, acidic, inorganic (containing 20-30% phosphoric acid), 8, PG III, Ltd Qty. Product at USE DILUTION Not intended for transport.

Trade name: Mark 10 Bathroom Cleaner

(Contd. from page 10)

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:	
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 Healt	h)
None of the ingredients is listed.	None of the ingredients is listed.
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.

	(Contd. from pa
Product as SOLD	Product at USE DILUTION
Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	
7664-38-2 phosphoric acid	None of the ingredients is listed.
15.2 Chemical safety assessment: A Chemical Safety Asses	ssment has not been carried out.
6 Other information	
eatures and shall not establish a legally valid contractual rela Relevant phrases 1302 Harmful if swallowed. 1314 Causes severe skin burns and eye damage. 1318 Causes serious eye damage. 1335 May cause respiratory irritation.	r, this shall not constitute a guarantee for any specific product tionship.
R22Harmful if swallowed.R34Causes burns.R35Causes severe burns.R37Irritating to respiratory system.R41Risk of serious damage to eyes.	
DS File Name: SM10P MARK 10 BATHROOM CLEANER SI bbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dar 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 Labe ACGIH: American Conference of Governmental Industrial Hyg EINECS: European Inventory of Existing Commercial Chemic ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Cl NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Sources JBE/JER	ngereuses par Route (European Agreement concerning the eling of Chemicals gienists cal Substances hemical Society)
o determine the safety, toxicity and suitability of his own use, handling and disposal of this p nade by Stearns Packaging Corporation as to the effects of such use, the results to be obta ny liability arising out of the use by others of this product referred to herein. The data in this	ccuracy, sufficiency or completeness of the material set forth herein. It is the user's responsib roduct. Since actual use by others is beyond our control, no warranty, expressed or implied, ined or the safety and toxicity of this product, nor does Stearns Packaging Corporation assum SDS relates only to the specific material designated herein and does not relate to use in cor ecommend blending this product with any other chemicals. All information, recommendations