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

Product identifier	I & I Calcium, Lime and Rust Remover ST-1257	
Other means of identification	AM10	
Recommended use	Non-foaming acid cleaner to remove stubborn mineral deposits	
Recommended restrictions	Not to be mixed with anything but water.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name	Stearns Packaging Corporation	
Address	4200 Sycamore Avenue (53714)	
	PO Box 3216	
	Madison, WI 53704-0216	
Telephone	Phone: 800-655-5008	
Fax	1-608-246-5149	
Email	stearns@stearnspkg.com	
Website	www.stearnspkg.com	
Emergency phone number	ChemTel Inc. (800)255-3924, +1 (813)248-0585	
2. Hazards Identification		

Physical hazards:	Corrosive to metals.	Category 1
Health hazards	Skin corrosion/irritation	Category 1C
	Serious eye damage/eye irritation	Category 1
Label elements		
	PE	
Signal word	Danger	
Hazard statement	Causes severe skin burns and ser metals.	ious eye damage. May be corrosive to
Precautionary statement		
Prevention	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Do not breathe mists. Keep only in original container.	
Response	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.	
	IF SWALLOWED: Immediately ca mouth. DO NOT induce vomiting.	II a POISON CENTER or physician. Rinse
	· · · · · ·	ediately all contaminated clothing. Rinse ed clothing before reuse. Immediately call a
	comfortable for breathing. Immedia physician.	-
	Absorb spillage to prevent materia	I damage.

	(Contd. from page
Storage	Store locked up. Store in a corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents in accordance with local regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

. Composition/Information on Ingredients			
xtures			
Chemical name	Common name and synonyms	CAS number	%
Phosphoric acid		7664-38-2	40-50%

4. First-Aid Measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Skin contact	Take off contaminated clothing immediately. Flush with cool water. Wash with soap and water. Get medical attention immediately. Wash clothing before reuse.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Most important symptoms/ effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-Fighting Measures

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.	
Unsuitable extinguishing media	Not available.	
	(Contd. on pag	e 3)

	(Contd. from page 2
Specific hazards arising from the chemical	During fire, toxic gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spill- ages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Stop the flow of material, if this is without risk.
	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spill- age to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ven- tilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store between -30° and 45°C.

Trade name: I & I Calcium, Lime and Rust Remover

(Contd. from page 3)

8. Exposure Controls/Pe	rsonal Protection		
Occupational exposure limits			
US. ACGIH Threshold Limit V	alues		
Components	Туре	Value	
Phosphoric Acid (CAS 7664-38-2)		1 mg/m ³	
	STEL	3 mg/m³	
US. OSHA Table Z-1 Limits fo	r Air Contaminants		
Components	Туре	Value	
Phosphoric Acid (CAS 7664-38-2)	PEL	1 mg/m ³	
Biological limit values	No biological exposure lin	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls		General ventilation normally adequate. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	
Individual protection measured	es, such as personal protecti	ve equipment	
Exposure guidelines			
Eye/face protection	Wear safety glasses with	Wear safety glasses with side shields or goggles.	
Skin protection			
Hand protection	Rubber gloves. Confirm cl	Rubber gloves. Confirm chemical compatibility with a reputable supplier first.	
Other	As required by employer	As required by employer code.	
Respiratory protection	A respirator is not needed	under normal conditions of use.	
Thermal hazards	Not available.		
General hygiene considerations	after handling the materia	sonal hygiene measures, such as washing I and before eating, drinking, and/or smoking. hing and protective equipment to remove	

Appearance	Clear
Physical state	Liquid.
Color	Orange.
Odor	Slight detergent chemical odor, no fragrance added.
Odor threshold	Not available.
рН	< 0.5 (Concentrate)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)

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		(Contd. from page 4)
Pour point	Not available.	
Specific gravity	1.28	
Partition coefficient (n-octanol/water)	Not available.	
Flash point	Not available.	
Evaporation rate	< 1 (BuAc=1)	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	osive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)	Complete	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	< 100 cP	
Other information		
Bulk density	10.66 lb/gal	

10. Stability and Reactivity	ty
Reactivity	None known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers. Reducing agents.
Hazardous decomposition products	Alkalis, organic materials, metals, and moisture. Do not mix with bleach or chlorinated products as chlorine gas will result. Hazardous decomposition should not be produced under normal conditions of storage and use.

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(Contd. from page 5)

11. Toxicological Informati			
Information on likely routes of e	•	and the theory and the second s	
Skin contact	Skin contact may cause pain or irritation, redness, or blistering.		
Eye contact	Causes serious eye damage. Direct contact with eyes may cause pain, watering and redness.		
Inhalation	Prolonged inhalation of mists may produce symptoms of coughing and respiratory tract irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness, pain, irritation, and blistering.		
Information on toxicological eff	ects		
Acute toxicity Oral, LD50 (rat), r	nixture, 5,460 mg/kg		
Components	Species	Test Results	
Phosphoric acid, 75% (CAS 7664-	-38-2)		
Acute			
Dermal			
LD50	Rabbit	3,160 mg/kg	
Inhalation			
LC50		not available	
Oral	5.4	4 500 1	
LD50	Rat	1,530 mg/kg	
Skin corrosion/irritation	Causes severe skin bur	ns	
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Causes serious eye dan watering, and redness.	Causes serious eye damage. Direct contact with eyes may cause pain, watering, and redness.	
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Recover days	Not available.	Not available.	
Respiratory or skin sensitization	n		
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		

Trade name: I & I Calcium, Lime and Rust Remover		
	(Contd. from page 6	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. OSHA Specifically Regula	nted Substances (29 CFR 1910.1001-1050)	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may result in coughing and respiratory tract irritation.	
Further information	Not available.	

Ecotoxicity		No know significant effects or crit	tical hazards.
Components		Species	Test Results
Phosphoric acid (CA	S 7664-38-2)		
Aquatic			
Fish	LC50	Mosquito fish	138 mg/l, 96 hours
Dorcistonco and do	gradability	No data is available on the degra	adability of this product.
reisisterice allu ue			
Bioaccumulative po	otential	No data available.	
		No data available. No data available.	
Bioaccumulative po			

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13. Disposal Considerations	
Disposal instructions	(Contd. from page 7) Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14 Transport information	
• 14.1 UN-Number • DOT-AIR, ADR, ADN, IMDG, IATA	NA1760
14.2 UN proper shipping name	
• DOT-LAND (ST-1257)	Cleaning Compounds, NOI, liquid.
• DOT-AIR (ST-1257)	NA1760, Compounds, cleaning liquid, (containing phosphoric acid), 8, PG III, Ltd. Qty.
• 14.3 Transport hazard class(es) This product can ship as Limited Quantity if packaged in ≤5 quarts (5.0 Liters) containers (Non Hazardous)	
• DOT-AIR, IMDG, IATA (ST-1257)	
CORRUNCE	8 Corrosive
• Class • Label	8
• DOT-LAND (ST-1257)	
\diamond	
• Class	N/A
• Label	LTD. QTY.

Trade name: I & I Calcium, Lime and Rust Remover

(Contd. from page 8)

14.4 Packing groupDOT, ADR, IMDG, IATA	III	
 14.5 Environmental hazards: Marine pollutant:	No	
 14.6 Special precautions for user Danger Code:	Warning: Corrosive Substances 80	
EMS NumberSegregation groups	F-A,S-B Alkalis	
 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.	
Transport/Additional information:	Not applicable.	

15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 8(b) Inventory	: All components are listed or exempted.
Not regulated.	
CERCLA Hazardous Substar	nce List (40 CFR 302.4)
Phosphoric acid, 5,000 lbs.	
US. OSHA Specifically Regul	ated Substances (29 CFR 1910.1001-1050)
Not listed.	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	Acute: yes
	No

ade name: I & I Calcium, Lim	e and Rust Remover	
		(Contd. from page
ther federal regulations		
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Prevention (40 CFR 68.	130)
Not regulated.		
Safe Drinking Water Act (S	DWA)	
Not regulated.		
Food and Drug Administra	tion (FDA)	
Not regulated.		
S state regulations		
US - California Proposition	65 - Carcinogens & Reproductive Toxicity (CRT): L	isted substance
None		
US. Massachusetts RTK - S	Substance List	
Phosphoric acid (CAS 766	04-38-2)	
US. New Jersey Worker an	d Community Right-to-Know Act	
Phosphoric acid (CAS 766	64-38-2)	
US. Pennsylvania RTK - Ha	zardous Substances	
Phosphoric acid (CAS 766	04-38-2)	
US. Rhode Island RTK		
Phosphoric acid (CAS 766	64-38-2)	
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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(Contd. from page 10)

	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not
Issue date	be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. 11/08/2017
SDS File Name	AM10 I & I Calcium, Lime and Rust Remover SDS
Further information	Not available.

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