

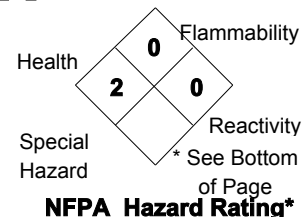
# MATERIAL SAFETY DATA SHEET

Manufactured by:

**SURFLEX**  
SERIES

**Anderson  
Chemical Company**

325 SOUTH DAVIS AVENUE  
LITCHFIELD, MINNESOTA 55355  
(320) 693-2477



**Product Name: Scale Kleen**

**24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)**

Revised: 5/1/2014 lmt  
Supersedes: 1/3/2013

## I. IDENTIFICATION

### Chemical Name And Synonyms:

Not applicable

### DOT Shipping Name

Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid / Nitric Acid); This product can ship as a LTD QTY if packaged in <1.3 gallon containers(NonHazardous)

### Chemical Family:

Acid

### DOT Hazard Class & I.D. Number

Corrosive Material UN3264

# 8  
PG III

## II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Phosphoric acid	7664-38-2	<15	1 mg/M3	1 mg/M3	NA	Corrosive to skin and eyes.
Nitric Acid	7697-37-2	<3	5 mg/M3	5 mg/M3	313**	Corrosive to skin and eyes.

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable  
NE: Not established

## III. PHYSICAL DATA

**Boiling Point:** Above 212° F  
**Specific Gravity:** 1.102  
**Appearance:** Clear, pale pink liquid

**Form:** Liquid  
**Solubility In Water:** Complete  
**pH, 1% Soln.:** 2.0  
**Odor:** None

## IV. FIRE AND EXPLOSION HAZARD DATA

**Flashpoint:** Not Applicable

**Extinguishing Media:** Not combustible. Use media appropriate to surrounding fire.

**Special Fire Fighting Procedures:** Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-contained breathing apparatus and other protective gear.

**Unusual Fire And Explosion Hazards:** If the stock solution container breaks, the product should be handled with care as it is corrosive. May produce poisonous or irritating gas or fumes. This material is reactive with many materials.

## V. HEALTH HAZARD DATA

**Carcinogenic:** The raw materials used in this product are not considered to be a carcinogen by NTP, IARC, ACGIH, and OSHA.

**Effects Of Over-exposure:** Corrosive. Can cause permanent damage to the cornea, blindness. Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis. Causes severe skin burns. Repeated or prolonged exposure to corrosive materials will cause dermatitis. Ingestion causes corrosion, burns to mouth and esophagus, abdominal pain, chest pain, nausea, vomiting, diarrhea, seizures. Aspiration of the swallowed or vomited product can cause severe pulmonary complications. Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances. Inhalation may cause corrosive burns irreversible damage. Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

**Emergency And First Aid Procedures:** Eyes: Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Inhalation: Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

*Continued On Back*

HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## VI. REACTIVITY DATA

**Stability - Unstable:**

**Stable: x**

**Conditions To Avoid:** Contact with reactive metals, contact with alkaline materials, especially caustic soda and caustic potash. Also hypochlorite solution.

**Incompatibility:** Fluorine, strong oxidizing agents, strong reducing agents, bases, metals, sulfur trioxide, phosphorus pentoxide  
(Materials to Avoid)

**Hazardous Decomposition Products:** At flame temperatures, toxic phosphorous oxide and nitrogen oxide fumes may be emitted.

## VII. SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material Is Released Or Spilled:

Small spills can be diluted with large amounts of water and flushed to sanitary sewer. For large spills, Evacuate nonessential personnel. Wear appropriate personal protection equipment. Completely contain spilled material with dikes or sandbags, etc., and prevent run-off into ground or surface waters or sewers. Recover as much material as possible into containers for disposal. Remaining material may be diluted with water and neutralized with lime or other base. Neutralization products, both solid and liquid, must be recovered for disposal.

**Waste Disposal Method:** If material can not be salvaged, neutralize and then discharge into a treatment system in accordance with local, state and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** For severe mist, use NIOSH approved respirator and self-contained breathing apparatus.

**Ventilation:** Adequate to meet exposure limit for acid mist.

**Protective Gloves:** Rubber or neoprene.

**Eye Protection:** Chemical goggles.

**Protective Clothing:** Skin contact should be prevented through use of suitable protective clothing, gloves and footwear selected with regard for use conditions.

## IX. SPECIAL PRECAUTIONS

### Precautions To Be Taken In Handling And Storing:

Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation. Keep containers tightly closed and properly labeled. This product reacts violently with bases liberating heat and causes spattering. Do not add water to product, add product to water with agitation. Store in a cool, dry, well-ventilated area. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

**Other Precautions** Safety showers and eyewash stations should be provided in the areas where this product is handled.

## X. REVISED INFORMATION

**MSDS Status:** DoT changed (added LTD QTY exemption)