

MATERIAL SAFETY DATA SHEET

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PRODUCT NUMBER:.....R3040XXX
CONTROL NUMBER:.....R3040XXX

For chemical emergency information regarding this product, call Chem-Tel at 1-800-255-3924 anytime.

SECTION I - IDENTIFICATION

PRODUCT NAME: **Restore**

PRODUCT TYPE:Acidic Liquid Cleaning Compound

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	C.A.S. NUMBER	PEL
Water	7732-18-5	No limits established
Hydrofluoric Acid	7664-39-3	3 ppm, 6 ppm STEL
Sulfuric Acid	7664-93-9	1 mg/m3 PEL
Cocoamphodipropionate	68604-71-7	No limits established

SECTION III – PHYSICAL DATA

APPEARANCE: Brown transparent liquid, with a sharp, irritating odor.
VAPOR PRESSURE:N/A VAPOR DENSITY (AIR=1):N/A
SPECIFIC GRAVITY:1.08 pH:Less than 1.0
BOILING POINT: 210 degrees F. SOLUBILITY IN WATER: Completely soluble.

SECTION IV – FIRE AND EXPLOSION DATA

FLASHPOINT:This product is non-flammable.
EXTINGUISHING MEDIA:This product is non-flammable. Use extinguishing media suitable for materials already burning.
SPECIAL FIRE FIGHTING PROCEDURES:.....Firefighters working in areas where this product is present should be equipped with an approved, fully enclosed SCBA with a plastic hood window.
UNUSUAL FIRE AND EXPLOSION HAZARDS:None known.

SECTION V – REACTIVITY DATA

STABILITY:.....Stable under normal conditions.
HAZARDOUS POLYMERIZATION:This product not known to polymerize.
INCOMPATIBILITY:.....Ferrous metals, aluminum, zinc, magnesium and any other acid sensitive materials.
HAZARDOUS BYPRODUCTSReaction with metals may liberate hydrogen gas and fluorides.

SECTION VI – HEALTH DATA

ROUTE(S) OF ENTRY:.....Inhalation, skin absorption, or ingestion.
LISTED CARCINOGEN:.....Not listed by IARC, NTP or OSHA.
MEDICAL CONDITION AGGRAVATED:None known.
INHALATION:Inhalation of significant amounts of this product can cause damage to lungs resulting in edema. If victim shows signs of distress, remove to fresh air and get immediate medical attention.
INGESTION:This material can cause burns and serious damage to throat, esophagus and stomach.
EYES:Can cause serious burns and/or blindness.

SKIN (DERMAL):.....This product can cause burns that are not immediately painful. This product will also damage underlying tissues such as nerves or bone. Treat all exposures as serious.

SECTION VII – FIRST AID

BREATHING (INHALATION):If this product is inhaled, get immediate medical attention!
SWALLOWING (INGESTION):.....DO NOT INDUCE VOMITING! Drink a large quantity of water, followed by either milk or a minimum of 2 teaspoons of milk of magnesia. Do not attempt to give liquids to an unconscious person. Get immediate medical attention!
EYES:Flush eyes with a large quantity of fresh water for at least 15 minutes. Apply ice compresses and GET IMMEDIATE EMERGENCY MEDICAL ATTENTION by an eye specialist. It may be necessary to take victim to a hospital emergency room.
SKIN (DERMAL):.....Rinse completely from hands, face and clothing. Flush skin with fresh water for at least 15 minutes. Treat skin with Iced aqueous solution of Benzalkonium Chloride 0.13%. This can be purchased from most drug stores as "Zephiran" concentrate(Winthrop). To make solution, dilute "Zephiran" concentrate 1 ounce to 1 gallon of water. Get immediate hospital emergency treatment. DO NOT apply this solution to the eyes.
NOTE TO PHYSICIAN:Calcium Gluconate gel(2.5%) may also be used to treat skin exposures.

SECTION VIII – EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:If necessary, use an OSHA approved respirator for acid gases.
PROTECTIVE CLOTHING:Nitrile, vinyl or neoprene gloves. Splash goggles and face shield. Protective outerwear and boots.
ADDITIONAL MEASURES:.....Do not place this product in an unmarked container! Keep away from children! Spilled material is slippery.

SECTION IX – SPILL AND DISPOSAL DATA

SPILL:.....Dike to prevent spillage into streams or sewer systems. Consult local, state and federal authorities.
WASTE DISPOSAL:.....As recommended by local, state and federal authorities.
HANDLING & STORAGE PRECAUTIONS:.....Do not store in metal or glass containers. Store at ambient temperatures. Keep from freezing. Product mist will etch glass. DO NOT TRANSFER TO UNMARKED CONTAINERS. KEEP AWAY FROM CHILDREN.

SECTION X – OTHER REGULATORY INFORMATION

PROPER SHIPPING NAME: Compounds, Cleaning, Liquid NFPA HEALTH: 3
HAZARD CLASS AND LABEL:8 NFPA FLAMMABILITY: 0
ID NUMBER:NA 1760 NFPA REACTIVITY: 0
PACKAGING GROUP:II NFPA OTHER: Acid

SECTION XI – PRECAUTIONARY STATEMENTS

WARNING:The information contained in this MSDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe- read this product safety information and pass it on to all persons who may be exposed to this product. Federal law requires it. This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.