

## 1. IDENTIFICATION

**PRODUCT NAME: RUST REMOVING SOUR**  
**RECOMMENDED USE: LAUNDRY SOUR**  
**RESTRICTIONS ON USE: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL.**  
**LABEL BRAND: U S CHEMICAL**  
**SDS 102089                      CODE 064101**

**U S CHEMICAL**                      316 HART STREET                      WATERTOWN, WI 53094 USA  
**MEDICAL EMERGENCY:**      1-866-923-4913 USA  
**SPILL EMERGENCY:**            1-800-424-9300 USA  
**PRODUCT INFORMATION:**      1-800-558-9566 USA                      (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)  
**INTERNET ADDRESS:**            [WWW.USCHEMICAL.COM](http://WWW.USCHEMICAL.COM)

## 2. HAZARD(S) IDENTIFICATION

**CLASSIFICATION: SKIN CORROSION (CATEGORY 1B), EYE DAMAGE (CATEGORY 1)**  
**ACUTE TOXICITY: ORAL (CATEGORY 4)**



### LABEL ELEMENTS

**SIGNAL WORD: DANGER**

**PICTOGRAMS: CORROSION, EXCLAMATION MARK**

**HAZARD STATEMENTS: CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE.**  
**HARMFUL IF SWALLOWED.**

**PRECAUTIONARY STATEMENTS:** Wear chemical-splash safety goggles, chemical-resistant protective gloves and protective footwear. Avoid contact with eyes, skin and clothing. Do not breathe dusts. Do not eat, drink, or smoke when using this product. Wash hands and affected areas thoroughly after handling. Mix only with water. Do not mix with ammonia, bleach or other chlorinated compounds. Can react to release hazardous gases.

**FIRST AID: IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. **IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. **IF SWALLOWED:** Rinse mouth. Call a Poison Center or physician if you feel unwell. **Do NOT** induce vomiting. If conscious, dilute by drinking up to a cupful of milk or water as tolerated. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

**START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**

**EMERGENCY TELEPHONE: 1-866-923-4913**

**Storage:** Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents in accordance with all federal, state and local applicable laws and regulations.

**KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**

**HAZARDS NOT OTHERWISE CLASSIFIED:** Not applicable.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	CAS #	WEIGHT %
SODIUM BIFLUORIDE	1333-83-1	40.0
SODIUM SILICOFLUORIDE	16893-85-9	40.0

**STATE RIGHT TO KNOW: SEE SECTION 15 FOR STATE RTK CHEMICAL NAMES IN MIXTURE.**

#### 4. FIRST-AID MEASURES

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**IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR AT LEAST 15 MINUTES.  
**IF ON SKIN (OR HAIR):** TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER FOR AT LEAST 15 MINUTES. WASH CONTAMINATED CLOTHING BEFORE REUSE.  
**IF SWALLOWED:** RINSE MOUTH. **Do NOT** INDUCE VOMITING. IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED.  
**IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.  
**START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**  
**EMERGENCY TELEPHONE: 1-866-923-4913**

**MOST IMPORTANT SYMPTOMS / EFFECTS:** CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY CAUSE BLINDNESS WITHOUT IMMEDIATE FIRST AID. HARMFUL IF SWALLOWED. CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH. CORROSIVE TO ALL BODY TISSUES.

**MEDICAL CONDITIONS AGGRAVATED:** NONE KNOWN.

**NOTE TO PHYSICIAN:** CALL 1-866-923-4913 FOR EXPOSURE MANAGEMENT ASSISTANCE.

#### 5. FIRE-FIGHTING MEASURES

**CHEMICAL HAZARDS:** CORROSIVE. NON-FLAMMABLE.

**COMBUSTION PRODUCT HAZARDS:** OXIDES OF CARBON AND OTHER FUMES.

**METHODS:** SELECT EXTINGUISHER AND METHODS BASED ON FIRE SIZE AND TYPE.

**EQUIPMENT:** WEAR SCBA AND FULL PROTECTIVE GEAR AS CONDITIONS WARRANT.

**NFPA RATING:** HEALTH-3/FLAMMABILITY-0/ INSTABILITY-1/SPECIAL HAZARD-N.AP.

**SUITABLE EXTINGUISHERS:** WATER, DRY CHEMICAL, CO2 OR FOAM SUITABLE FOR FIRE.

**UNSUITABLE EXTINGUISHERS:** NO RESTRICTIONS BASED ON CHEMICAL HAZARDS.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PERSONAL PROTECTION INCLUDING RUBBER BOOTS. SEE SECTION 8. VENTILATE AREA IF NEEDED. BE CAREFUL NOT TO SLIP. WASH THOROUGHLY AFTER CLEAN-UP.

**ENVIRONMENTAL PRECAUTIONS:** PREVENT SPILL FROM ENTERING DRAIN, STORM SEWER OR SURFACE WATERWAY. PREVENT WATER AND SOIL CONTAMINATION.

**CLEAN-UP METHODS:** CAREFULLY SWEEP UP AND SHOVEL INTO DRY LABELED CONTAINERS WITHOUT RAISING DUST. MOVE CONTAINERS OUT OF SPILL AREA. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

#### 7. HANDLING AND STORAGE

**HANDLING:** FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INHALATION, INGESTION, AND CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE REUSE. PRODUCT RESIDUE MAY REMAIN IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

**STORAGE:** KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP. STORE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT. ROTATE STOCK REGULARLY. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF REACH OF CHILDREN.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**EXPOSURE LIMITS:**

SODIUM SILICOFLUORIDE = 2.5 MG/M3 TWA FLUORIDES, AS F (ACGIH/OSHA)

SODIUM BIFLUORIDE = 2.5 MG/M3 TWA FLUORIDES, AS F (ACGIH/OSHA)

**ENGINEERING CONTROLS:** NONE REQUIRED. GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.**PERSONAL PROTECTION****EYES:** SAFETY GOGGLES (INDIRECT-VENTED OR NON-VENTED) AND AN EYE-WASH STATION.**HANDS:** CHEMICAL-RESISTANT PROTECTIVE GLOVES (RUBBER OR NEOPRENE).**RESPIRATORY:** WEAR DUST MASK IF HANDLING CREATES AIR-BORNE DUST.**FEET:** RUBBER BOOTS DURING SPILL CLEAN-UP AND WHEN EXPOSURE IS POSSIBLE.**BODY:** RUBBER FULL-COVER PROTECTIVE CLOTHING WHEN EXPOSURE IS POSSIBLE.**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE:** WHITE POWDER**ODOR:** NONE**pH CONCENTRATE:** N.AP.**pH @ 2500 PPM SOLUTION:** 3.0 (ACIDIC)**pH @ USE DILUTION:** N.AV.**PHYSICAL STATE:** GRANULAR POWDER**RELATIVE DENSITY (WATER):** N.AV.**SOLUBILITY (WATER):** MODERATE**VAPOR PRESSURE:** N.AV.**VAPOR DENSITY:** N. AV.**VISCOSITY:** N.AP.**AUTO-IGNITION TEMPERATURE:** N.AV.**DECOMPOSITION TEMPERATURE:** N.AV.**EXPLOSIVE LIMITS (LEL/UEL):** NONE**EVAPORATION RATE:** N.AV.**FLAMMABILITY (SOLID, GAS):** N.AP.**FLASH POINT:** NONE**INITIAL BOILING POINT/RANGE:** N.AV.**MELTING POINT/FREEZING POINT:** N.AV.**ODOR THRESHOLD:** N.AV.**PARTITION COEFF. (N-OCTANOL/WATER):** N.AV**OTHER:** N.AV.**10. STABILITY AND REACTIVITY****REACTIVITY:** MIXING WITH INCOMPATIBLES CAN RELEASE HEAT + HAZARDOUS GASES.**CHEMICAL STABILITY:** STABLE.**POSSIBILITY OF HAZARDOUS REACTIONS:** SEE REACTIVITY. WILL NOT POLYMERIZE.**CONDITIONS TO AVOID:** TEMPERATURES ABOVE 120°F (49°C) AND HIGH HUMIDITY.**MATERIALS TO AVOID:** BLEACH, METAL AND OTHER CLEANERS. MIX ONLY WITH WATER.**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE UNDER NORMAL CONDITIONS.**11. TOXICOLOGICAL INFORMATION****ROUTES OF EXPOSURE:** EYES, SKIN, INGESTION, INHALATION.**INFORMATION ON ROUTES OF EXPOSURE:** NO LC50/LD50 TEST DATA ON MIXTURE.**ACUTE EFFECTS /SYMPTOMS:** CORROSIVE TO ALL BODY TISSUES.**EYES:** CAUSES SERIOUS EYE DAMAGE. MAY CAUSE PAIN, REDNESS AND WATERING.**SKIN:** CAUSES SEVERE SKIN BURNS. MAY CAUSE DELAYED PAIN, REDNESS AND BLISTERING.**INGESTION:** CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH.**INHALATION:** MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM.**CHRONIC / OTHER EFFECTS:** NO REPORTABLE GERM CELL MUTAGENS, SKIN SENSITIZERS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.**SPECIFIC TARGET ORGANS (SINGLE/REPEATED):** NONE KNOWN.**NUMERICAL MEASURES OF TOXICITY:** ATE<sub>mix</sub> (ORAL-RAT) = 400 MG / KG**CARCINOGENS:** NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.

**12. ECOLOGICAL INFORMATION**

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**ECOTOXICITY / CHEMICAL FATE:** NOT AVAILABLE.**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS A CORROSIVE WASTE (RCRA CLASS D002). DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL APPLICABLE LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

**14. TRANSPORT INFORMATION****DOT / IMDG / TDG:** UN2439, SODIUM HYDROGENDIFLUORIDE, SOLID MIXTURE, 8, II**15. REGULATORY INFORMATION**

**EPA CERCLA RQ:** NO  
**EPA REGISTERED:** NO  
**OSHA HAZARDOUS:** YES  
**PHOSPHORUS CONTENT:** 0.00%  
**PROPOSITION 65:** NO  
**SARA 311/312 HAZARDS:** ACUTE  
**SARA 313 CHEMICALS:** NO  
**STATE RIGHT TO KNOW:** SODIUM BIFLUORIDE/1333-83-1,  
SODIUM SILICOFLUORIDE/16893-85-9, SODIUM CHLORIDE/7647-14-5  
**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.  
**VOC:** 0.00% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

**16. OTHER INFORMATION**

**PREPARATION DATE:** 9-9-14    **PREPARED BY:** RC    **REVISED SECTION:** 16  
**ABBREVIATIONS:** N.AV. = NOT AVAILABLE    N.AP. = NOT APPLICABLE

**NOTICE TO READER**

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