

MATERIAL SAFETY DATA SHEET

PAGE 1 OF 3

VALUE PRODUCTS INC 2128 INDUSTRIAL DRIVE STOCKTON, CA 95206

PRODUCT CODE: 2331

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME : **IRON SOUR**CHEMICAL NAME : INORGANIC FLUORINE COMPOUND
FORMULA : PROPRIETARY
DOT HAZARD CLASS : FLUROSILICIC ACID SOLUTION, 8, UN1778, PGII

<u>HAZARD RATING (NFPA 704)</u>	<u>HAZARD RATING</u>	<u>PROTECTIVE EQUIPMENT</u>
HEALTH: 3	0=MINIMAL	A=GOGGLES
FIRE: 0	1=SLIGHT	B=GOGGLES, GLOVES
REACTIVITY: 3	2=MODERATE	C=GOGGLES, GLOVES, APRON
PROTECTIVE EQUIPMENT: D&E	3=SERIOUS	D=GOGGLES, GLOVES, APRON, FACE SHIELD
	4=SEVERE	E=GOGGLES, GLOVES, RESPIRATOR

CHEMTREC'S 24 HOUR EMERGENCY TELEPHONE NUMBER 800-424-9300

SECTION II HAZARDOUS INGREDIENTS

SUBSTANCES LISTED IN THIS SECTION ARE THOSE IDENTIFIED AS BEING PRESENT AT A CONCENTRATION OF 1% OR GREATER, OR 0.1% IF THE SUBSTANCE IS ON THE LIST OF POTENTIAL CARCINOGENS CITED IN OSHA HAZARD COMMUNICATION STANDARD.

MATERIAL (BASED ON 100% FORMULA LEVEL)	CAS#	TLV	PEL
FLUROSILICIC ACID	16961-83-4	2.5mg/m3	2.5mg/m3

SECTION III PHYSICAL DATA

BOILING POINT : 212 °C
VAPOR PRESSURE (AIR=1): <1
VAPOR DENSITY: (AIR=1): WATER BASED
SPECIFIC GRAVITY: 1.139
PH CONCENTRATE SOLUTION: 1.3
DESCRIPTION: CRYSTAL CLEAR, COLORLESS LIQUID
VOLATILE : 49%
SOLUBILITY IN WATER: COMPLETE
EVAPORATION RATE (WATER=1): 1
VISCOSITY: WATER-LIKE**SECTION IV FIRE AND EXPLOSION HAZARDS**

FLASH POINTS: NON-COMBUSTIBLE

FLAMMABLE LIMITS LEL/UEL: NA

METHOD USED: C.O.C.

EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CARBON DIOXIDE MAY BE USED.

UNUSUAL FIRE OR EXPLOSIVE HAZARD: CONTACT WITH ALUMINUM TO PRODUCE FLAMMABLE/EXPLOSIVE HYDROGEN-AIR MIXTURE.

SECTION V HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF EXPOSURE (SKIN, EYE CONTACT; INHALATION; INGESTION)

EYE CONTACT : MAY CAUSE SEVERE DAMAGE TO EYES IF NOT PROPERLY AND IMMEDIATELY TREATED. DESTRUCTIVE TO EYE TISSUES

INHALATION : MAY CAUSE SERIOUS IRRITATION TO RESPIRATORY TRACT. A BURNING SENSATION IN THE NOSE AND THROAT AS WELL AS COUGHING, CHOKING MAY BE NOTED. CONTINUED DEEP INHALATION MAY CAUSE DAMAGE TO LUNG TISSUES.

INGESTION : CAN CAUSE IRRITATION OF MOUTH, THROAT, AND GASTROINTESTINAL TRACT. NAUSEA, VOMITING, DIARRHEA MAY ALSO OCCUR. THE MATERIAL IS POISONOUS TO HEALTH IF INGESTED.

SKIN CONTACT : MAY CAUSE IMMEDIATE LOCAL REACTION INCLUDING REDNESS, ITCHING, IRRITATION, FOLLOWED BY LOSS OF SURFACE LAYERS OF THE SKIN. PROLONGED CONTACT WILL CAUSE SEVERE IRRITATION TO SKIN AND MUCOUS MEMBRANE, AND POSSIBLY CHRONIC DERMATITIS.

FIRST AID MEASURES

EYE CONTACT : IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS TO ENSURE FLUSHING OF THE ENTIRE SURFACE. SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION : REMOVE TO FRESH AREA IMMEDIATELY. GET MEDICAL ATTENTION AS SOON AS POSSIBLE

INGESTION : IF SWALLOWED NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF MILK, MILK OF MAGNESIA, RAW EGGS OR WATER TO DRINK FOLLOWED BY VEGETABLE OR MINERAL OIL. SEEK MEDICAL ATTENTION.

SKIN CONTACT : WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. IF IRRITATION OCCURS AND PERSISTS SEEK MEDICAL ATTENTION AS NEEDED.

SECTION VI REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): REACT VIOLENTLY WITH STRONG ALKALIES. CONTACT WITH REACTIVE METALS SUCH AS ALUMINUM TO PRODUCE FLAMMABLE/EXPLOSIVE HYDROGEN AIR MIXTURE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: FLAME TEMPERATURE.

HAZARDOUS DECOMPOSITION: HYDROFLUORIC ACID, AMMONIA UNDER EXCESSIVE HEAT.

SECTION VII SPILL OR LEAK PROCEDURES

CLEAN-UP PROCEDURES: KEEP UNNECESSARY PERSONNEL AWAY. ISOLATE SPILLED AREAS. WEAR RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS NEEDED. DIKE, SALVAGE, SWEEP UP AND PLACE MATERIAL IN SEALABLE CONTAINERS FOR DISPOSAL. NEUTRALIZE WITH SODA ASH OR LIME. FLUSH RESIDUES WITH WATER. NEUTRALIZE CONTAMINATED WATER BEFORE DISPOSAL TO SEWAGE IN ACCORDANCE WITH LOCAL, STATE, FEDERAL REGULATIONS.

RECOMMENDED WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ENSURE THAT APPLICABLE AGENCIES RECEIVE PROPER NOTIFICATION OF SPILLS AND DISPOSAL METHODS.

SECTION VIII SPECIAL PROTECTION DATA

RESPIRATORY PROTECTION : NIOSH-APPROVED RESPIRATOR FOR ORGANIC VAPORS/MISTS. NIOSH-MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED IF VAPORS LEVEL EXCEEDS TLV.

EYE PROTECTION : SAFETY GOGGLES OR FULL FACE SHIELD.

PROTECTIVE CLOTHING : RUBBER GLOVES, BOOTS, FULL-LENGTH CLOTHING.

VENTILATION : LOCAL EXHAUST

OTHER PROTECTIVE MEASURES: SAFETY SHOWER AND EYEWASH SHOULD BE NEARBY AND READY FOR USE.

SECTION IX**SPECIAL PRECAUTION**

HYGIENIC PRACTICES IN HANDLING STORING: WASH THOROUGHLY AFTER HANDLING. AVOID BODY CONTACT.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: STORE IN ORIGINAL CONTAINER, AT COOL, DRY, AND WELL-VENTILATED AREAS. AVOID ANY CONTAMINATION TO FOOD LINES. AWAY FROM STRONG BASES.

DISPOSAL OF EMPTY CONTAINER: EMPTY CONTAINERS SHOULD BE TRIPLE RINSED WITH WATER AND DISPOSED OF PURSUANT TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.

SECTION X**USER'S RESPONSIBILITY**

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT.

THE INFORMATION CONTAINED HEREIN, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, IS ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

11/03/93	REVISED HEALTH HAZARD, DISPOSAL.
06/01/94	REVISED EMERGENCY PHONE NUMBER, HAZARD RATING SCALE
04/11/97	REVISED FIRST AID MEASURE, INGESTION
02/26/07	REVISED FORMULA