MATERIAL SAFETY DATA SHEET
OSHA-171 DATA

SECTION I - IDENTIFICATION

IDENTITY

TRAISY STEP Anti-Slip Formula

MANUFACTURER

TRAISY STEP INTERNATIONAL

STREET

162 Eastern Avenue

CITY, STATE

Lynn, Massachusetts 01902

TELEPHONE

EMERGENCY 617/59-39000

INFORMATION 617/593-9800

DATE

9-9-89

PREPARER

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS INGREDIENTS CHEMICAL NAMES

OSHA PEL ACGIH TLV

Hydrofluoric acid

CAS 7664-39-3

1 2.5mg/m3 1 3 ppm 1 < 1

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT

212 F

SPECIFIC GRAVITY

1.002

VAPOR PRESSURE

Not determined

MELTING POINT

NA

VAPOR DENSITY

NA

EVAPORATION (Water = 1)

1

SOLUBILITY IN WATER

100%

APPEARANCE/ODOR

Straw colored liquid, mild acid odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT/METHOD

None, TCC

FLAMMABLE LIMITS

NA

EXTINGUISHING MEDIA

Nonflammable, none required

SPECIAL FIRE FIGHTING PROCEDURES

Spray containers with water if exposed to fire to prevent rupture. For major exposure to product during a fire, wear NIOSH approved protective clothing and self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Reacts with certain metals to produce hydrogen gas which is flammable and potentially explosive if ignited.
SECTION V - REACTIVITY DATA

STABILITY Stable - Yes Conditions to avoid - alkaline materials

INCOMPATIBLE MATERIALS Metals, glass, cement and silicon compounds.

HAZARDOUS DECOMPOSITION PRODUCTS Given off toxic HF gas if boiled.

HAZARDOUS POLYMERIZATION Will not occur - X

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY - INHALATION Yes SKIN Yes INGESTION Yes

HEALTH HAZARDS Causes severe eye irritation on contact. Severe skin irritant on prolonged contact. Vapors are harmful and irritate the respiratory track. Ingestion causes severe burns of gastrointestinal tract.

CARCINOGENICITY: NTP No IARC No OSHA REGULATED No

SYMPTOMS OF EXPOSURE Severe eye irritation upon contact. Irritated skin on prolonged contact. Severe gastrointestinal burns and diarrhea from ingestion. Inhalation causes irritation of the respiratory system.

EMERGENCY FIRST AID PROCEDURES Immediately flush eyes with water for 15 to 20 minutes and see a physician. Remove contaminated clothing and shoes and wash skin thoroughly with soap and water. If irritation persists see a physician. For excess inhalation remove to fresh air, give oxygen if having trouble breathing and get medical attention. If ingested drink milk, antacids, lots of water and get medical attention. Do not induce vomiting.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF SPILLED OR RELEASED Contain spill and neutralize with lime or soda ash. Pick up neutralized liquid with a wet-vac or absorb as solid waste. Wash residues or small spill in sewer. Wash spent residues from use to sewer. Neutralized residues are non-toxic & biodegradable.

WASTE DISPOSAL METHOD Sewer neutralized cleaner residues and spent residues from anti slip treatment with lots of water. Landfill solid waste in plastic containers. Dispose of in accordance with local, State and Federal regulations.

HANDLING & STORING Store at 40 - 100 F in closed containers.

OTHER PRECAUTIONS Store in a closed container out of reach of children. Use only plastic containers to transfer, hold and apply the product.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION Not required when used as directed.

VENTILATION Mechanical or general ventilation when using the product.

EYE PROTECTION Chemical splash goggles CLOVES Rubber or plastic

PROTECTIVE EQUIPMENT Eye wash and shower immediately available.