

TEXASGULF INC. -- HFSA,FLUOSILICIC ACID -- 6810-00-935-5817

===== Product Identification =====

Product ID:HFSA,FLUOSILICIC ACID

MSDS Date:01/01/1993

FSC:6810

NIIN:00-935-5817

MSDS Number: BMSPN

=== Responsible Party ===

Company Name:TEXASGULF INC.

Address:GLENWOOD AND GLEN EDEN

Box:30321

City:RALEIGH

State:NC

ZIP:27622-0321

Country:US

Info Phone Num:919-881-2700

Emergency Phone Num:919-881-2700

C

AGE:MO298

=== Contractor Identification ===

Company Name:AMERICAN DEVELOPMENT CORP

Address:1456 STATE CAMP ROAD

Box:385

City:VANCEBORO

State:NC

ZIP:28586

Country:US

Phone:919-244-0782

CAGE:3J729

Company Name:LOS ANGELES CHEMICAL CO

Address:4545 ARDINE ST

Box:1987

City:SOUTH GATE

State:CA

ZIP:90280

Country:US

Phone:213-562-9500

CAGE:75656

Company Name:SOUTHCHEM INC.

Address:2000 EAST PETTIGREW STREET

Box:1491

City:DURHAM

State:NC

ZIP:27702

Country:US

Phone:919-596-0681

CAGE:0CGN5

Company Name:TEX

ASGULF INC.
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===== Composition/Information on Ingredients =====

Ingred Name:HYDROFLUOROSILICIC ACID
CAS:16961-83-4
RTECS #:VV8225000
Fraction by Wt: 24.5%
Other REC Limits:NONE SPECIFIED

Ingred Name:HYDROGEN FLUORIDE (SARA III)
CAS:7664-39-3
RTECS #:MW7875000
Fraction by Wt: 0-1.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:3 PPM/6 STEL (F)
ACGIH TLV:C 3 PPM (F
) ; 9192
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:TLV C 3 PPM AS F.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY
& GI TRACTS. ACUTE- CORROSIVE. SEVERE EYE & SKIN BURNS. INHALATION
OF FUMES ARE TOXIC CAUSING ULCERATION OF NOSE & THROAT, COUGHING,
HEADACHE, DIZZINESS,
NAUSEA, SHOCK & PULMONARY EDEMA. INGESTION
CAUSES DESTRUCTION OF GI TRACT, ULCERATION OF MUCOUS MEMBRANNES.
CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP,
OR OSHA AS A CARCINOGEN.
Effects of Overexposure:SEVERE EYE CORROSION, ULCERATION OF CORNEA,
SKIN BURNS & BLISTERS, ULCERATION OF NOSE & THROAT, COUGHING,
SALIVATION, HEADACHE, FATIGUE, DIZZINESS, NAUSEA, SHOCK,
DESTRUCTION OF GI TRACT, ULCERATION O F MUCOUS MEMBRANE

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First Aid Measures
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First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.
EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE
Extinguishing Media:CARBON DIOXIDE OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
Fire Fighting Procedures:WEAR ACID PROOF CLOTHING AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:REACTS WITH MANY METALS TO PRODUCE FLAMMABLE AND EXPLOSIVE HYDROGEN. DECOMPOSITION OCCURS ABOVE 227F TO PRODUCE TOXIC GAS INCLUDING SIF4 AND HF.

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Accidental Release Measures
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Spill Release Procedures:WEAR ACID-RESISTANT CLOTHING, BOOTS, GLOVES AND FACE SHIELD. VENTILATE AREA. STOP FLOW OF MATERIAL. DILUTE WITH WATER. CAREFULLY NEUTRALIZE WITH SODA ASH, SODIUM BICARBONATE, LIME. DO NOT DISCHARGE TO SEWER.
Neutralizing Agent:SODIUM BICARBONATE OR 50/50 MIX LIME & SODA ASH

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Handling and Storage
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Handling and Storage Precautions:STORE IN PLASTIC CONTAINERS AWAY FROM HEAT AND INCOMPATIBLE MATERIALS. DO NOT USE METAL, GLASS OR STONWARE. KEEP OUT OF REACH OF CHILDREN.
Other Precautions:AVOID BREATHING VAPOR. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. LAUNDER BEFORE REUSE.

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Exposure Controls/Personal Protection
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Respiratory Protection:A NIOSH APPROVED RESPIRATOR FOR ACID FUMES W

HEN

EXPOSURE EXCEEDS THE OSHA PEL OF 2.5 MG F/M3. OVER 20 PPM USE A SELF CONTAINED BREATHING APPARATUS.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:PVC

Eye Protection:TIGHT FITTING GOGGLES(NO CONTACT LENSES)

Other Protective Equipment:PROTECTIVE CLOTHING, EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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===== Physical/Chemical Properties =====

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:DECOMPOSES

Melt/Freeze Pt:M.P/F.P Text:-1F,-19C

Decomp Temp:Decomp Text:227F,108C

Vapor Pres:24 @ 77F

Vapor Density:>1

Spec Gravity:1.23

pH:1.5- 2

Solubility in Water:COMPLETE

Appearance and Odor:WATER WHITE FUMING LIQUID, SOUR PENETRATING ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

METALS, GLASS, STONEWA

RE, AND STRONG CONCENTRATED ACIDS SUCH AS SULFURIC AND PERCHLORIC.

Stability Condition to Avoid:EXCESSIVE HEAT

Hazardous Decomposition Products:HYDROGEN FLUORIDE (GAS), SILICON TETRAFLUORIDE OR ON CONTACT WITH METALS, HYDROGEN (EXPLOSION HAZARD)

===== Disposal Considerations =====

Waste Disposal Methods:IF UNCONTAMINATED, RECOVER AND REUSE. CONSULT LOCAL, STATE OR FEDERAL ENVIRONMENTAL REGULATORY AGENCIES FOR ACCEPTABLE DISPOSAL PROCEDURES AN

D LOCATIONS.

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