

SODIUM FLUOROACETATE

SAT

CAUTIONARY RESPONSE INFORMATION

Common Synonyms Acetic acid, fluoro-, sodium salt Compound 1080 Fluoroacetic acid, sodium salt Sodium monofluoroacetate		Solid (powder)	White (may be dyed black or yellow)	Faint, vinegar-like
Sinks and mixes with water.				
<p>KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear self-contained positive pressure breathing apparatus and full protective clothing. Notify local health and pollution control agencies. Protect water intakes.</p>				
Fire	Not flammable. POISONOUS GASES ARE PRODUCED IN FIRE OR WHEN HEATED TO DECOMPOSITION. Wear self-contained positive pressure breathing apparatus and full protective clothing. Extinguish small fires: dry chemical, carbon dioxide, water spray or foam; large fires: water spray, fog or foam. Move container from fire area if you can do it without risk.			
Exposure	CALL FOR MEDICAL AID. DUST Very high acute toxicity. May be fatal if inhaled or absorbed through skin; harmful to eyes. IF IN EYES OR ON SKIN, flush with running water for at least 15 minutes; hold eyelids open periodically if appropriate. Remove and isolate contaminated clothing and shoes at the site. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID Very high acute toxicity. May be fatal if swallowed or absorbed through skin; harmful to eyes. IF IN EYES OR ON SKIN, flush with running water for at least 15 minutes; hold eyelids open periodically if appropriate. Remove and isolate contaminated clothing and shoes at the site. IF SWALLOWED and victim is CONSCIOUS, have victim drink water and touch back of throat to induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.			
Water Pollution	Effect of low concentration on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge
 Dilute and disperse

2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: Not listed.
- 2.2 Formula: CH₂FCOO_{Na}
- 2.3 IMO/UN Designation: 6.1/2629
- 2.4 DOT ID No.: 2629
- 2.5 CAS Registry No.: 62-74-8
- 2.6 NAERG Guide No.: 151
- 2.7 Standard Industrial Trade Classification: 51371

3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Wear self-contained positive pressure breathing apparatus and full protective clothing.
- 3.2 **Symptoms Following Exposure:** Very high acute toxicity either as the dust or in solution. The lethal dose is essentially the same for exposure via inhalation, ingestion or skin contact. Contact with the eyes can also affect the body. Absorption is very rapid by the gastrointestinal tract; but skin absorption is slow unless the skin is cut or abraded. Symptoms may be delayed 30 minutes to 2 hours after ingestion; and may include vomiting, apprehension, auditory hallucinations, nystagmus, tingling sensations of the nose and face, facial numbness and twitching, and epileptiform convulsions. Several hours later, there may be pulsus alternans, ectopic heartbeats, tachycardia, ventricular fibrillation, and death. Autopsy findings pursuant to a lethal ingestion included hemorrhagic pulmonary edema and degeneration of renal tubules.
- 3.3 **Treatment of Exposure:** INHALATION: Move victim to fresh air; call emergency medical care. If breathing has stopped, give artificial respiration. EYES OR SKIN: Immediately flush eyes or skin with running water for at least 15 minutes; hold eyelids open periodically if appropriate. Remove and isolate contaminated clothing and shoes at the site. INGESTION: If victim is CONSCIOUS, have victim drink large quantities of water and induce vomiting by touching the back of the throat. If victim is UNCONSCIOUS, do nothing except keep victim quiet and maintain normal body temperature.
- 3.4 TLV-TWA: 0.05 mg/m³
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 4; LD₅₀ = 0.220 mg/kg (rat)
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 **Chronic Toxicity:** Symptoms included severe and progressive lesions of the renal tubular epithelium along with milder hepatic, neurologic and thyroid dysfunctions. Reproductive effects were observed in the rat.
- 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent
- 3.11 Liquid or Solid Characteristics: Currently not available
- 3.12 Odor Threshold: Currently not available
- 3.13 IDLH Value: 2.5 mg/m³
- 3.14 OSHA PEL-TWA: 0.05 mg/m³
- 3.15 OSHA PEL-STEL: Not listed.
- 3.16 OSHA PEL-Ceiling: Not listed.
- 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

- 4.1 Flash Point: Not combustible
- 4.2 Flammable Limits in Air: Not pertinent
- 4.3 Fire Extinguishing Agents: Small fires: Dry chemical, carbon dioxide, water spray or foam. Large fires: Water spray, fog or foam.
- 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
- 4.5 Special Hazards of Combustion Products: Contains highly toxic sodium oxide and fluoride fumes.
- 4.6 Behavior in Fire: Decomposes to produce irritating and highly toxic fumes.
- 4.7 Auto Ignition Temperature: Not pertinent
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Not pertinent
- 4.10 Adiabatic Flame Temperature: Not pertinent
- 4.11 Stoichiometric Air to Fuel Ratio: Not pertinent.
- 4.12 Flame Temperature: Not pertinent
- 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 98%
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: Not listed
- 7.4 Venting: Not pertinent
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available
- 7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 49 CFR Category: Poison
- 8.2 49 CFR Class: 6.1
- 8.3 49 CFR Package Group: I
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification:

Category	Classification
Health Hazard (Blue).....	4
Flammability (Red).....	0
Instability (Yellow).....	0
- 8.6 EPA Reportable Quantity: 10 pounds
- 8.7 EPA Pollution Category: A
- 8.8 RCRA Waste Number: P058
- 8.9 EPA FWPCA List: Not listed

5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction
- 5.2 Reactivity with Common Materials: In the presence of moisture, it may react with aluminum to produce highly flammable hydrogen gas.
- 5.3 Stability During Transport: Stable
- 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
- 5.5 Polymerization: Not pertinent
- 5.6 Inhibitor of Polymerization: Not pertinent

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Solid
- 9.2 Molecular Weight: 100.03
- 9.3 Boiling Point at 1 atm: Not pertinent (decomposes)
- 9.4 Freezing Point: 292°F = 200°C = 473°K
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: >1 (temperature not listed)
- 9.8 Liquid Surface Tension: Not pertinent
- 9.9 Liquid Water Interfacial Tension: Not pertinent
- 9.10 Vapor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
- 9.12 Latent Heat of Vaporization: Not pertinent
- 9.13 Heat of Combustion: Currently not available
- 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Currently not available
- 9.16 Heat of Polymerization: Not pertinent
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Not pertinent

NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
68	111.000		N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T