





SULFUR TETRAFLUORIDE**ICSC: 1456****Date of Peer****Review:****May 2003**Tetrafluorosulfurane
(cylinder)

CAS #	7783-60-0	F ₄ S
RTECS #	WT4800000	Molecular mass: 108.06
UN #	2418	
EC #		

TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
FIRE	Gives off irritating or toxic fumes (or gases) in a fire. Not combustible.		NO water. In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			In case of fire: cool cylinder by spraying with water but avoid contact of the substance with water.
EXPOSURE		AVOID ALL CONTACT!	
Inhalation	Burning sensation. Cough. Sore throat. Headache. Nausea. Vomiting. Shortness of breath. Laboured breathing. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
Skin	Pain. Redness. Skin burns. ON CONTACT WITH LIQUID: FROSTBITE.	Cold-insulating gloves. Protective clothing.	ON FROSTBITE: do NOT remove clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Blurred vision. Severe deep burns. ON CONTACT WITH LIQUID: FROSTBITE.	Safety goggles, face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	
SPILLAGE DISPOSAL		PACKAGING & LABELLING	

Evacuate danger area! Consult an expert! Ventilation. Personal protection: gas-tight chemical protection suit including self-contained breathing apparatus.	EU Classification UN Classification UN Hazard Class: 2.3 UN Subsidiary Risks: 8
EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-20G2TC NFPA Code: H3; F0; R;	Keep in a well-ventilated room. Fireproof if in building. Cool. Dry.
     <p>Prepared in the context of cooperation between the International Programme on Chemical Safety and the Commission of the European Communities © IPCS, CEC 2004</p> <p>SEE IMPORTANT INFORMATION ON BACK</p>	

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IMPORTANT DATA

PHYSICAL STATE; APPEARANCE:
COLOURLESS GAS, WITH CHARACTERISTIC
ODOUR.

PHYSICAL DANGERS:
The gas is heavier than air.

CHEMICAL DANGERS:
Reacts violently with water and acids to produce
toxic and corrosive fumes. Attacks glass and
metal.

OCCUPATIONAL EXPOSURE LIMITS:
TLV: 0.1 ppm (Ceiling value); (ACGIH 2003).

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by
inhalation.

INHALATION RISK:
On loss of containment, a harmful concentration
of this gas in the air will be reached very quickly.

EFFECTS OF SHORT-TERM EXPOSURE:
The substance is corrosive to the eyes, the skin
and the respiratory tract. The liquid may cause
frostbite. Inhalation of this gas may cause lung
oedema (see Notes).

**EFFECTS OF LONG-TERM OR REPEATED
EXPOSURE:**
The substance may have effects on the bones
and teeth, resulting in fluorosis.

PHYSICAL PROPERTIES

Boiling point: -40°C
Melting point: -124°C
Solubility in water: reaction
Relative vapour density (air = 1): 3.78

ENVIRONMENTAL DATA

NOTES

The occupational exposure limit value should not be exceeded during any part of the working exposure. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential.

ADDITIONAL INFORMATION
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