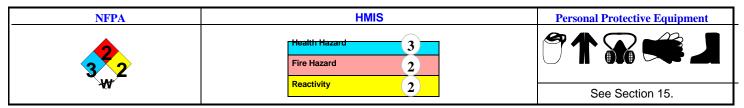




Material Safety Data Sheet



Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Diethylaminosulflur Trifluoride	Catalog Number(s).	D2128	
		CAS#	38078-09-0	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.	
Commercial Name(s)	DAST	CI#	Not available.	
Synonym	Sulfur, (N-ethylethanaminato)trifluoro-, (T-4 (Diethylamino)sulphur trifluoride	IN CASE OF	IN CASE OF EMERGENCY	
Chemical Name	(Diethylamino)sulfur trifluoride	CHEMTREC	<u>C (24hr) 800-424-9300</u>	
Chemical Family	Not available.	CALL (310) 5	516-8000	
Chemical Formula	C4-H10-F3-N-S			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients					
			Exposure Limits		
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Diethylaminosulflur Trifluoride	38078-09-0				100
Toxicological Data Diethylaminosulflur Trifluoride					

Toxicological Data	Diethylaminosulflur Trifluoric
on Ingredients	LD50: Not available.
-	LC50: Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Diethylaminosulflur Trifluoride Page Number: 2		
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Section 4. First Aid	Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. Get medical attention immediately.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse Thoroughly clean shoes before reuse. Get medical attention immediately.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. See immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxyger Get medical attention immediately.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt o waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.	
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything b mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medica attention immediately.	
Serious Ingestion	Not available.	
Section 5. Fire and E	Explosion Data	
Flammability of the Product	Flammable.	
Auto-Ignition Temperature	Not available.	
Flash Points	CLOSED CUP: 23°C (73.4°F).	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds.	
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of moisture.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.	
Fire Fighting Media and Instructions	Flammable liquid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.	

Special Remarks on Explosion Not available.

Hazards

Diethylaminosulflur 1	Trifluoride
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Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Large Spill	Flammable liquid. Corrosive liquid. Poisonous liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into	
	sewers, basements or confined areas; dike if needed. Call for assistance on disposal.	

Section 7. Handling and Storage

Precautions	Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	e Liquid. (Fuming liquid.)	Odor	Not available.
Molecular Weight	161.19 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Amber.
Boiling Point	30℃ (86F)		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	1.316 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		

Diethylaminosulflur	Trifluoride
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Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, ignition sources, incompatible materials, water or moisture	
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis, moisture.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Contact with water hydrolyzes the material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas. Reacts vigorously with water.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information					
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation.				
Toxicity to Animals	LD50: Not available. LC50: Not available.				
Chronic Effects on Humans	Not available.				
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (permeator), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive).				
Special Remarks on Toxicity to Animals	Not available.				
Special Remarks on Chronic Effects on Humans	Not available.				
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes severe irritation and burns. It is readily absorbed through the skin. Eyes: Causes severe irritation and burns. Inhalation: Causes severe respiratory tract irritation and burns. May be fatal if inhaled. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, and bronchii, chemical pneumonitis, and pulmonary edema, headache, nausea, vomiting. Ingestion: May be fatal if swallowed. Causes gastrointestal/digestive tract burns, nausea, vomiting.				

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the product itself.			
Special Remarks on the Products of Biodegradation	Not available.			

Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

DOT Classification	Class 8: Corrosive material CLASS 3: Flammable liquid.
Identification	UNNA: 2920 : Corrosive liquid, flammable, n.o.s. (diethylaminosulfur trifluoride) PG: I
Special Provisions for Transport	Not available.
DOT (Pictograms)	3

Federal and State Regulations	No products were found.						
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.						
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 213-022-2). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Not listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Not listed on AICS.						
Other Classifications	WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS E: Corrosive liquid.					
	DSCL (EEC)	R5- Heating may cause an explosion. R10- Flammable. R14- Reacts violently with water. R34- Causes burns.		 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37- Wear suitable protective clothing and gloves. S38- In case of insufficient ventilation, wear suitable respiratory equipment. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 			
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	3 2 2	National Fire Protection Association (U.S.A.)	Health	Flammability Reactivity Specific hazard		
WHMIS (Canada) (Pictograms)							
	xt Page						

Diethylaminosulflur Trifluoride			Page Number: 6		
DSCL (Europe) (Pictograms)	°				
TDG (Canada) (Pictograms)					
ADR (Europe) (Pictograms)					
Protective Equip	nent	Gloves.			
	1	Full suit.			
		Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.			
Section 16. Other Information					
MSDS Code	5625D				
References	Not available.				
Other Special Considerations	Not available.				
Validated by Sonia Owen on 8/2/2010.		Verified by Sonia Owen. Printed 8/2/2010.			

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.