

Safety Data Sheet 86623X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/26/2017 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 4-Nitrophenylsulfur pentafluoride
CAS No	: 2613-27-6
Product code	: 8662-3-X3
Formula	: C6H4F5NO2S
Other means of identification	: MFCD00221619
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
Classification (GHS-US)	
Skin Irrit. 2H315 - CausesEye Irrit. 2AH319 - CausesSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 162.2.Label elements	skin irritation serious eye irritation
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May causes Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	skin irritation serious eye irritation
Skin Irrit. 2H315 - CausesEye Irrit. 2AH319 - CausesSTOT SE 3H335 - May causeFull text of H-phrases: see section 162.2.Label elements	skin irritation serious eye irritation ise respiratory irritation
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May causes Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	skin irritation serious eye irritation
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May causes Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	skin irritation serious eye irritation ise respiratory irritation
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May cause Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 skin irritation serious eye irritation ise respiratory irritation : ise respiratory irritation <li: irritation<="" iso="" li="" respiratory=""> : iso respiratory irritation : iso respiratory irritation <li: irritation<="" iso="" li="" respiratory=""> <li: irritation<="" iso="" li="" respiratory=""> : iso respiratory irritation <li: irritation<="" iso="" li="" respiratory=""> </li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:>

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P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P361 - Take off immediately all contaminated clothing P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant				ntion re reuse tightly closed	
2.3.	Other hazards litional information available				
2.4 .	Unknown acute toxicity (GHS US)				
	plicable				
SECT	TION 3: Composition/informatio	n on in	gredients		
3.1.	Substance				
-	nce type	: Mono	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
4-Nitro	ophenylsulfur pentafluoride constituent)		(CAS No) 2613-27-6	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H311 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full tex	t of H-phrases: see section 16				
3.2.	Mixture				
	plicable				
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-ai	d measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
First-ai	d measures after inhalation	respi	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	ention.	
	d measures after skin contact		with plenty of soap and water. Get imm		
	d measures after eye contact	prese	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.
First-ai	d measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2.	Most important symptoms and effect				
Sympto	oms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3.	Indication of any immediate medica	l attentic	n and special treatment needed		
Treat s	ymptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
	e extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
Suitabl					
	Special hazards arising from the su	bstance	or mixture		
5.2.	, , , , , , , , , , , , , , , , , , ,		mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides. Sulfur
<mark>5.2.</mark> Fire ha	, , , , , , , , , , , , , , , , , , ,	: Ther	mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides. Sulfur
5.2. Fire ha 5.3.	zard	: Ther oxide	mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides. Sulfur

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SECTION 6: Accidental release measu	res				
6.1. Personal precautions, protective equipment and emergency procedures					
	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.				
6.1.1. For non-emergency personnel					
	Only qualified personnel equipped with suitable protective equipment may intervene.				
6.1.2. For emergency responders					
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					
Avoid release to the environment. Notify authorities	if product enters sewers or public waters.				
6.3. Methods and material for containment	and cleaning up				
For containment :	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.				
Methods for cleaning up :	Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.				
Other information :	For disposal of solid materials or residues refer to section 13 : "Disposal considerations".				
6.4. Reference to other sections					
No additional information available					
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling :	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.				
Hygiene measures :	Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.				
7.2. Conditions for safe storage, including	any incompatibilities				
Technical measures :	Comply with applicable regulations.				
Storage conditions :	Keep container closed when not in use.				
Incompatible materials :	Refer to Section 10 on Incompatible Materials.				
Storage area :	Store in dry, cool, well-ventilated area.				
SECTION 8: Exposure controls/person	SECTION 8: Exposure controls/personal protection				
8.1. Control parameters					
No additional information available					
8.2. Exposure controls					
Appropriate engineering controls :	Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.				
Hand protection :	Protective gloves. 29 CFR 1910.138: Hand Protection.				
Eye protection :	Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.				
Skin and body protection :	Wear suitable protective clothing.				
Respiratory protection :	In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.				
Other information :	Safety shoes. 29 CFR 1910.136: Foot Protection.				
SECTION 9: Physical and chemical pro	operties				
9.1. Information on basic physical and che	mical properties				
Physical state :	Solid				
Appearance :	Low melting solid.				
Color :	No data available				
Odor :	No data available				
Odor threshold :	No data available				

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	Maron 20, 2012 / Haros and Hogalations
pH	: No data available
Melting point	: 38 °C
Freezing point	: No data available
Boiling point	: 76 - 77 °C (@ 12 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 249.16 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.4729 (@ 20 °C)
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	rage conditions.
10.3. Possibility of hazardous reactions	

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

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Specific target organ toxicity (repeated exposure)	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Reproductive toxicity	: Not classified	
Carcinogenicity	: Not classified	
Germ cell mutagenicity	: Not classified	
Respiratory or skin sensitization	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Skin corrosion/irritation	: Causes skin irritation.	

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Aspiratio	on hazard	: Not classified
SECT	ON 12: Ecological information	
12.1.	Toxicity	
No addi	tional information available	
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal consider	rations			
13.1. Waste treatment methods				
Waste treatment methods Waste disposal recommendations	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. 			
Additional information SECTION 14: Transport informa	: Recycle the material as far as possible.			
SECTION 14. Transport information				
Department of Transportation (DOT)				

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

: Toxic solids, organic, n.o.s.

: UN2811

6.1 - Poison

In accordance with DOT Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) : III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240 DOT Symbols : G - Identifies PSN requiring a technical name DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more

tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. DOT Packaging Exceptions (49 CFR 173.xxx) : 153

stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable

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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

: 6.1 - Toxic Substances

: III - Minor Danger

4-Nitrophenylsulfur pentafluoride	CAS No 2613-27-6	100%
E.		

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Class (IATA)

Packing group (IATA)

No additional information available

EU-Regulations

4-Nitrophenylsulfur pentafluoride (2613-27-6)	
Listed on ELINCS (European List of Notified Chemical Substances)	
National regulations	
4-Nitrophenylsulfur pentafluoride (2613-27-6)	

Listed on the TCSI (Taiwan Chemical Substance Inventory)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

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Full tex	t of H-phrases:		
	Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3
	Acute Tox. 3 (Inhalation)		Acute toxicity (inhalation) Category 3
	Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2		Skin corrosion/irritation Category 2
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3
	H301		Toxic if swallowed
	H311		Toxic in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H331		Toxic if inhaled
	H335		May cause respiratory irritation
NFPA health hazard		: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard		: 1 - Must be preheated before ignition can occur.	
NFPA reactivity		 : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.