

Safety Data Sheet 48547X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/10/2017 Version: 1.0

SECTION 1: Identification					
1.1. Identification Product form	: Substance				
Substance name	: 2,4-Dichloro-3,5-dinitrobenz	strifluorido			
CAS No	: 2,4-Dichloro-3,5-dirittrobenz : 29091-09-6	Januaonde			
Product code	: 4854-7-X3				
Formula	: C7HCl2F3N2O4				
		fluoromothyl)bonzono: 24 Dichloro alpha alpha a	laba trifluoro 2 5		
Synonyms	dinitrotoluene	fluoromethyl)benzene; 2,4-Dichloro-alpha,alpha,a	apria-trinuoro-3,5-		
Other means of identification	: MFCD00042480				
1.2. Relevant identified uses of the substa	ance or mixture and uses ad	rised against			
	: Laboratory chemicals				
	Manufacture of substances				
	Scientific research and deve	lopment			
1.3. Details of the supplier of the safety da	ata sheet				
SynQuest Laboratories, Inc.					
P.O. Box 309					
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097					
info@synguestlabs.com - www.synguestlabs.com					
1.4. Emergency telephone number					
	: (844) 523-4086 (3E Compar	y - Account 10069)			
5 Y		,			
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mix	kture				
Classification (GHS-US)					
Acute Tox. 4 (Oral) H302 - Harmful if swallowe	d				
Skin Irrit. 2 H315 - Causes skin irritation					
Eye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritation					
Aquatic Acute 1 H400 - Very toxic to aquatic					
Full text of H-phrases: see section 16					
2.2. Label elements					
GHS-US labeling					
Hazard pictograms (GHS-US)					
	• • <del>*</del>				
	GHS07 GHS09				
Signal word (GHS-US)	: Warning				
Hazard statements (GHS-US)	: H302 - Harmful if swallowed				
	H315 - Causes skin irritation				
	H319 - Causes serious eye H335 - May cause respirato				
	H410 - Very toxic to aquatic				
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust				
	P264 - Wash skin thorough				
	P270 - Do not eat, drink or s P271 - Use only outdoors or	moke when using this product			
	P273 - Avoid release to the				
	P280 - Wear protective glov	es/protective clothing/eye protection/face protection			
		Call a POISON CENTER or doctor/ physician if yo	u feel unwell		
		h with plenty of soap and water hove person to fresh air and keep comfortable for	breathing		
		s: Rinse cautiously with water for several minutes			
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	P31: P32 P33: P33: P33: P36: P39 P40: P40:	es, if present and easy to do. Continue rin 2 - Call a POISON CENTER or doctor/ph 1 - Specific treatment (see supplemental 0 - Rinse mouth 2+P313 - If skin irritation occurs: Get mec 7+P313 - If eye irritation persists: Get me 2+P364 - Take off contaminated clothing 1 - Collect spillage 3+P233 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap	ysician if you fe first aid instruct dical advice/atte dical advice/atte and wash it bef Keep containe	ions on this label) Intion ention ore reuse r tightly closed
2.3. Other hazards				
No additional information available 2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on iı	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,4-Dichloro-3,5-dinitrobenzotrifluoride (Main constituent)		(CAS No) 29091-09-6	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures	· In ca	ase of accident or if you feel unwell, seek	medical advice	immediately (show the label
First-aid measures after inhalation	whe	re possible). Move the affected personne nove person to fresh air and keep comfort	I away from the	contaminated area.
	resp	iration. Get immediate medical advice/att	ention.	
First-aid measures after skin contact		h with plenty of soap and water. Get imm		
First-aid measures after eye contact	pres	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
rst-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.				
4.2. Most important symptoms and eff				
Symptoms/injuries		most important known symptoms and eff and/or in section 11.	ects are descrit	bed in the labelling (see section
4.3. Indication of any immediate medi	cal attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the				
Fire hazard		mal decomposition generates: Carbon ox ogen oxides.	kides. Hydroger	n chloride. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing				
Protection during firefighting				

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SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only gualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders	. De not ottomat to take a sting without witching material any income. For further information		
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 auth	orities if product enters sewers or public waters.		
6.3. Methods and material for contain	nment and cleaning up		
For containment	: Stop leak if safe to do so.		
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
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		
, i i i i i i i i i i i i i i i i i i i	ventilation of the work station. Do not breathe dust, mist, spray. 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, incl	uding 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/pe	ersonal 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	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>		
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.		
SECTION 9: Physical and chemic			
9.1. Information on basic physical ar			
Physical state	: Solid		
Color : No data available			
Odor : No data available			
Odor threshold : No data available pH : No data available			
Melting point	/b - /8 °C		

Freezing point

: No data available

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Boiling point	: 291 - 294 °C
Flash point	: > 110 °C
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	: 304.99 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

Reactivity

No additional information available

## SECTION 10: Stability and reactivity

No additional information available

## 10.2. Chemical stability

10.1.

The product is stable at normal handling and storage 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.

SECTI	SECTION 11: Toxicological information			
11.1.	Information on toxicological effects			
Acute to:	kicity	: Oral: Harmful if swallowed.		
Skin cori	osion/irritation	: Causes skin irritation.		
Serious eye damage/irritation		: Causes serious eye irritation.		
Respiratory or skin sensitization		: Not classified		

# Germ cell mutagenicity: Not classifiedCarcinogenicity: Not classifiedReproductive toxicity: Not classified

- Specific target organ toxicity (single exposure) : May cause respiratory irritation.
- Specific target organ toxicity (repeated : Not classified exposure)
- Aspiration hazard

: Not classified

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SECTION 12: Ecological information				
12.1.	Toxicity			
No addi	tional information available			
12.2.	Persistence and degradability			
No additional information available				
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			
No additional information available				

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

# **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

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) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)
DOT Symbols

: UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III

# : UN3077

- : Environmentally hazardous substances, solid, n.o.s.
- : 9 Class 9 Miscellaneous hazardous material 49 CFR 173.140
- : 9 Class 9 (Miscellaneous dangerous materials)



- : III Minor Danger
- : Yes



- : 213
- : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for
	solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
	transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:
	a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
	<ul> <li>b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2</li> <li>c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2</li> </ul>
	d. Fiberboard: 11G
	<ul> <li>e. Wooden: 11C, 11D and 11F (with inner liners)</li> <li>f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).</li> <li>B54 - Open-top, sift-proof rail cars are also authorized.</li> </ul>
	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. N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.
	T1 - 1.5 178.274(d)(2) Normal
	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 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 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)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
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)	: 3077
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous compounds
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3077
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger
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\$	SECTION 15: Regulatory information				
1	5.1. US Federal regulations				
	2,4-Dichloro-3,5-dinitrobenzotrifluoride (29091-09-6)				
- [	Listed on the United States TSCA (Toxic Substances Control Act) inventory				

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

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

2,4-Dichloro-3,5-dinitrobenzotrifluoride (29091-09-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

#### 2,4-Dichloro-3,5-dinitrobenzotrifluoride (29091-09-6)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law)

## 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**

#### Full text of H-phrases:

	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	Aquatic Acute 1		Hazardous to the aquatic environment - Acute Hazard Category 1
	Aquatic Chronic 1		Hazardous to the aquatic environment - Chronic Hazard Category 1
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
	H400		Very toxic to aquatic life
	H410		Very toxic to aquatic life with long lasting effects
	ire hazard eactivity	<ul> <li>: 0 - Materials that will not</li> <li>: 0 - Normally stable, even</li> <li>and are not reactive with</li> </ul>	n under fire exposure conditions,
HMIS II	I Rating		
Health	Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical trea given		jor injury likely unless prompt action is taken and medical treatment is
Flammability : 0 Minimal Hazard - Mat		: 0 Minimal Hazard - Mat	erials that will not burn
Physica	al	: 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)		
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