

2,4-Dichloro-3,5-dinitrobenzotrifluoride 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

1.1. Identification	
Product form	: Substance
Substance name	: 2,4-Dichloro-3,5-dinitrobenzotrifluoride
CAS No	: 29091-09-6
Product code	: 4854-7-X3
Formula	: C7HCl2F3N2O4
Synonyms	: 2,4-Dichloro-1,3-dinitro-5-(trifluoromethyl)benzene; 2,4-Dichloro-alpha,alpha,alpha-trifluoro-3,5- dinitrotoluene
Other means of identification	: MFCD00042480
1.2. Relevant identified uses of the set	ubstance 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) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Classification of the substance of Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swal Skin Irrit. 2 H315 - Causes skin irrit. Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H305 - May cause res Aquatic Acute 1 H400 - Very toxic to a Aquatic Chronic 1 H400 - Very toxic to a	llowed ritation se ye irritation spiratory irritation quatic life
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2,4-Dichloro-3,5-dinitrobenzotrifluoride Safety Data Sheet

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	P312 - Call a POISON CENTER or d P321 - Specific treatment (see suppl P330 - Rinse mouth P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists P362+P364 - Take off contaminated P391 - Collect spillage P403+P233 - Store in a well-ventilate P405 - Store locked up	P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed					
2.3. Other hazards							
No additional information available							
2.4. Unknown acute toxicity (GHS US	5)						
Not applicable							
SECTION 3: Composition/informa	ation on ingredients						
3.1. Substance	• • · · ·						
Substance type	: Mono-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							
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4.1. Description of first aid measures	s : In case of accident or if you feel unw where possible). Move the affected p						
4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get immediate medical a 	personnel away from t comfortable for brea dvice/attention.	he contaminated area. thing. If not breathing, give artificial				
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according to Federal Register / Vol. 77, No. 58 / Monday	/, March 26, 2012 / Rules and Regulations
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective ed	quipment 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 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 pressutions	
6.2. Environmental precautions Avoid release to the environment. Notify authori	tion if product ontors cowars or public waters
	· · ·
6.3. Methods and material for containm	
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 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, includ	ing 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: Expective controls/pars	conclusion
SECTION 8: Exposure controls/pers	
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	properties
9.1. Information on basic physical and	
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 76 - 78 °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**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong o	oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.

SECTION 11: Toxicological information Information on toxicological effects 11.1. Acute toxicity : Oral: Harmful if swallowed. Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional information available

SECTION 13: Disposal consideration	ons
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.

: Recycle the material as far as possible.

Waste disposal recommendations Additional information

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 Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location Other information	 13H2, 13H3, 13H4, 13H5, IP3 - Flexible IBCs must be water-resistant liner. N20 - A 5M1 multi-wall pap T1 - 1.5 178.274(d)(2) Norr TP33 - The portable tank in powdered solids and for so melting point which are coo or offered for transport abo tanks conforming to the pro packing group III or T7 for s stringent requirements for r pressure-relief devices or b instruction and special prov tank special provision TP3. must be transported in acc 155 No limit 	struction assigned for this substance applies for grar ids which are filled and discharged at temperatures a led and transported as a solid mass. Solid substance we their melting point are authorized for transportation visions of portable tank instruction T4 for solid substa- olid substances of packing group II, unless a tank win ninimum shell thickness, maximum allowable working ottom outlets are assigned in which case the more st isions shall apply. Filling limits must be in accordance Solids meeting the definition of an elevated tempera ordance with the applicable requirements of this subco- med "on deck" or "under deck" on a cargo vessel an	a sift-proof and ort vehicle. Addove their es transported n in portable ances of th more g pressure, ringent tank e with portable ture material hapter.
TDG No additional information available Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG) Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	 : 3077 : ENVIRONMENTALLY HAZ : 9 - Miscellaneous dangerou : III - substances presenting : 3077 : Environmentally hazardous : 9 - Miscellaneous Dangerou : III - Minor Danger 	low danger substance, solid, n.o.s.	
01/10/2017	EN (English US)	SDS ID: 48547X3	6/8

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SECTION	15: Regulatory	information						
15.1. US Fe	deral regulations							
2,4-Dichlo	oro-3,5-dinitrobenzot	rifluoride (29091-0	9-6)					
Listed on t	he United States TSC	A (Toxic Substance	es Control Ac	t) invento	ory			
AU						 	 .	

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:

l	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	Aquatic Acute 1		Hazardous to the aquatic environment - Acute Hazard Category 1
I	Aquatic Chronic 1		Hazardous to the aquatic environment - Chronic Hazard Category 1
i	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
i	Skin Irrit. 2		Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed
	STOT SE 3		
i	H302		
i	H315		Causes skin irritation
i	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
i	H400		Very toxic to aquatic life
	H410		Very toxic to aquatic life with long lasting effects
NFPA reactivity		: 0 - Normally stable, ever and are not reactive with	n under fire exposure conditions, water.
HMIS I	II Rating		
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability		: 0 Minimal Hazard - Materials that will not burn	
Physica	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		
SDS US	GHS HazCom 2012)		

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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.