

# 3,5-Dichlorotrifluoropyridine

Safety Data Sheet 3H32635 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/09/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3.5-Dichlorotrifluoropyridine
CAS No	: 1737-93-5
Product code	: 3H32-6-35
ormula	: C5Cl2F3N
ynonyms	: Pyridine, 3,5-dichloro-2,4,6-trifluoro- / 3,5-Dichloro-2,4,5-trifluoropyridine
Other means of identification	: MFCD00006226
	bstance or mixture and uses advised against
lse of the substance/mixture	Laboratory chemicals     Manufacture of substances
	Scientific research and development
.3. Details of the supplier of the safet	ty data sheet
ynQuest Laboratories, Inc. .O. Box 309	
Nachua, FL 32615 - United States of America (386) 462-0788 - F (386) 462-7097 nfo@synguestlabs.com - www.synguestlabs.c	
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	n
.1. Classification of the substance or	mixture
lassification (GHS-US)	
cute Tox. 1 (Inhalation) H330 - Fatal if inh	
Skin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May cause	kin irritation
Skin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	kin irritation erious eye irritation
Skin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 162.2.Label elements	kin irritation erious eye irritation
Skin Irrit. 2       H315 - Causes sk         Eye Irrit. 2A       H319 - Causes se         STOT SE 3       H335 - May cause         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	kin irritation erious eye irritation
Skin Irrit. 2     H315 - Causes sk       Eye Irrit. 2A     H319 - Causes se       STOT SE 3     H335 - May cause       Full text of H-phrases: see section 16       2.2.     Label elements       SHS-US labeling	rin irritation erespiratory irritation
Skin Irrit. 2 H315 - Causes sk Eye Irrit. 2A H319 - Causes se 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)	<ul> <li>kin irritation erospiratory irritation</li> <li>:</li></ul>
Skin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	rin irritation erespiratory irritation

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P362+P364 - Take off co	ntaminated clothing and wash it before reuse
P403+P233 - Store in a v	vell-ventilated place. Keep container tightly closed

- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

#### 2.3. **Other hazards**

#### No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

#### Not applicable

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Substance type	: Mono-constituent				
Name		Product identifier	%	Classification (GHS-US)	
3,5-Dichlorotrifluoropyridine (Main constituent)		(CAS No) 1737-93-5	<= 100	Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see section 16					
3.2. Mixture					
Not applicable					
SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel			
First-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		ng. If not breathing, give artificial	
First-aid measures after skin contact	: Wasł	with plenty of soap and water. Get imm	ediate medical a	advice/attention.	
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get			
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical			
4.2. Most important symptoms and effe	cts, both	acute and delayed			
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section	
4.3. Indication of any immediate medica	al attentio	n and special treatment needed			
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media	
5.2. Special hazards arising from the su	ibstance (	or mixture			
Fire hazard		nal decomposition generates: Carbon ox gen oxides.	ides. Hydrogen	chloride. Hydrogen fluoride.	
5.3. Advice for firefighters					
Firefighting instructions	: In cas	se of fire: Evacuate area.			
Protection during firefighting		gas tight chemically protective clothing i ratus. For further information refer to sec			
SECTION 6: Accidental release mea	sures				
6.1. Personal precautions, protective ed	quipment	and emergency procedures			
General measures		uate unnecessary personnel. Ensure ade he gas, fumes, vapor or spray.	equate air ventil	ation. Do not breathe dust. Do no	
6.1.1. For non-emergency personnel					
<u> </u>					

Emergency procedures

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 auth	orities if product enters sewers or public waters.
6.3. Methods and material for contain	
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, inclu	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.
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-	
SECTION 8: Exposure controls/pe	
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Flammability (solid, gas)

Relative evaporation rate (butyl acetate=1)

: No data available

: No data available

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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
Specific gravity / density	:	1.622 g/ml (@ 20 °C)
Molecular mass	:	201.961 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

: 1.478 (@ 20 °C)

### 10.1. Reactivity

#### No additional information available

**SECTION 10: Stability and reactivity** 

#### 10.2. Chemical stability

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.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Inhalation: Fatal if inhaled.
3,5-Dichlorotrifluoropyridine (1737-93-5)	
ATE US (gases)	10.000 ppmV/4h
ATE US (vapors)	0.050 mg/l/4h
ATE US (dust, mist)	0.005 mg/l/4h
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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SECT	ION 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 addi	tional 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) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : NA9264 3,5-Dichloro-2,4,6-trifluoropyridine, 6.1, I
- : NA9264
- : 3,5-Dichloro-2,4,6-trifluoropyridine
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : I Great Danger
- : 227
- : 244
- : D Proper shipping name for domestic use only, or to and from Canada

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according to Federal Register / Vol. 77, No. 58 / Monday, DOT Special Provisions (49 CFR 172.102)		<ul> <li>2 - This material is poisonus by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.</li> <li>B9 - Bottom outlets are not authorized.</li> <li>B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.</li> <li>B32 - MC 312, MC 330, MC 331, DOT 412 cargo tanks and DOT 51 portable tanks must be made of stainless steel, except that steel other than stainless steel may be used in accordance with the provisions of 173.24b(b) of this subchapter. Thickness of stainless steel for tank shell and heads for cargo tanks and portable tanks must be the greater of 6.35 mm (0.250 inch) or the thickness required for a tank with a design pressure at least equal to 1.3 times the vapor pressure of the lading at 46 C (115 F). In addition, MC 312 and DOT 412 cargo tank motor vehicles must: a. Be ASME Code (U) stamped for 100% radiography of all pressure-retaining welds; b. Have accident damage protection which conforms with 178.3458 of this subchapter; c. Have a MAWP or design pressure of at least 87 psig; and d. Have a bolted man way cover.</li> <li>T20 - 10 8 mm Prohibited 178.275(g)(3).</li> <li>TP4 - The maximum degree of filling for portable tanks must not exceed 90%.</li> <li>TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.</li> <li>TP38 - Each portable tank must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square fo</li></ul>
		Thickness of stainless steel for portable tank shells and heads must be the greater of 6.35 mm (0.250 inch) or the thickness required for a portable tank with a design pressure at least equal
DOT Backaging Exceptions (40 CED 472 year)		to 1.3 times the vapor pressure of the hazardous material at 46 C (115 F).
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		None Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	Forbidden
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other		40 - Stow "clear of living quarters"
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	:	3382
Proper Shipping Name (IMDG)	:	TOXIC BY INHALATION LIQUID, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	I - substances presenting high danger
Air transport		
UN-No. (IATA)	:	3382
Proper Shipping Name (IATA)	:	Toxic by inhalation liquid, n.o.s.
Class (IATA)		6.1 - Toxic Substances
SECTION 15: Regulatory information	۱	
15.1. US Federal regulations		
3,5-Dichlorotrifluoropyridine (1737-93-5)		
Listed on the United States TSCA (Toxic Subst	and	ces Control Act) inventory
EPA TSCA Regulatory Flag		PMN
		S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.

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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**

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### 3,5-Dichlorotrifluoropyridine (1737-93-5)

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**

#### Full text of H-phrases:

Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) 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
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
NFPA health hazard NFPA fire hazard NFPA reactivity	<ul> <li>4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS III Rating	
Health	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
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.