

Safety Data Sheet 3H32711

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/06/2016 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 5,6-Dichloro-2-(trifluoromethyl)-1H-benzimidazole
CAS No	: 2338-25-2
Product code	: 3H32-7-11
Formula	: C8H3Cl2F3N2
Other means of identification	: MFCD01658509
1.2. Relevant identified uses of the	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 sat	fety 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@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
Classification (GHS-US)	
2.2. Label elements	
2.2. Label elements GHS-US labeling	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS06 GHS07 CHS07 CHS07
GHS-US labeling	: GHS06 GHS07 : Danger : H300 - Fatal if swallowed H311+H331 - Toxic in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>Danger</li> <li>H300 - Fatal if swallowed</li> <li>H311+H331 - Toxic in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>

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		<ul> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P361 - Take off immediately all contaminated clothing</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>				
2.3.	Other hazards					
No additio 2.4.	onal information available					
z.4. Not applie	Unknown acute toxicity (GHS US)					
			rue di ente			
	ON 3: Composition/information	on in	greaients			
3.1. Substanc	Substance	Mono	-constituent			
		NONO				
Name			Product identifier	%	Classification (GHS-US)	
5,6-Dichl (Main cons	oro-2-(trifluoromethyl)-1H-benzimidazole <sup>stituent</sup> )		(CAS No) 2338-25-2	<= 100	Acute Tox. 1 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of	of H-phrases: see section 16					
3.2.	Mixture					
Not applie						
SECTIO	ON 4: First aid measures					
4.1.	Description of first aid measures					
First-aid r	Ū.	where	e of accident or if you feel unwell, seek i possible). Move the affected personnel	away from the o	contaminated area.	
		respir	ve person to fresh air and keep comforta ation. Get immediate medical advice/atte	ention.		
			with plenty of soap and water. Get imme			
	neasures after eye contact :	prese	diately flush eyes thoroughly with water in and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.	
First-aid r	neasures after ingestion :		OT induce vomiting. Never give anything out with water. Get immediate medical			
4.2.	Most important symptoms and effects					
Symptom	s/injuries :		nost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section	
4.3.	Indication of any immediate medical a	ttentio	n and special treatment needed			
Treat syn	nptomatically.					
SECTIO	ON 5: Firefighting measures					
	Extinguishing media					
			ol resistant foam. Carbon dioxide. Dry po	owder. Water sp	ray. Use extinguishing media	
5.1.			priate for surrounding fire.			
5.1. Suitable e		appro	priate for surrounding fire.			
5.1. Suitable e 5.2.	extinguishing media : Special hazards arising from the subs	appro tance o Thern	priate for surrounding fire.	des. Hydrogen	chloride. Hydrogen fluoride.	
5.1. Suitable e 5.2. Fire haza	extinguishing media : Special hazards arising from the subs	appro tance o Thern	priate for surrounding fire. or mixture nal decomposition generates: Carbon ox	des. Hydrogen	chloride. Hydrogen fluoride.	
5.1. Suitable e 5.2. Fire haza 5.3.	extinguishing media : Special hazards arising from the subsord rd Advice for firefighters	appro tance c Thern Nitrog	priate for surrounding fire. or mixture nal decomposition generates: Carbon ox	des. Hydrogen	chloride. Hydrogen fluoride.	

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ccording to Federal Register / Vol. 77, No. 58 / Mon SECTION 6: Accidental release m	
	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 qualified personnel equipped with suitable protective equipment may intervene.
5.1.2. 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".
5.2. Environmental precautions	
Avoid release to the environment. Notify auth	norities if product enters sewers or public waters.
3.3. Methods and material for contain	iment 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".
<b>5.4.</b> 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.
lygiene 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.
2.2. Conditions for safe storage, incl	uding any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible 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	
3.2. 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.
land protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
ye 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	al properties
0.1. Information on basic physical ar	Id chemical properties
Physical state	: Solid
Color	: No data available
Ddor	: No data available
Ddor threshold	: No data available
bH	: No data available
Melting point	: 238 - 240 °C

Freezing point

: No data available

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Boiling point	: No data available
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	: 255.02 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

#### **Other information** 9.2.

No additional information available

### SECTION 10: Stability and reactivity

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.

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

#### Information on toxicological effects 11.1.

Acute toxicity

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

5,6-Dichloro-2-(trifluoromethyl)-1H-benzimidazole (2338-25-2)				
LD50 oral rat	7881 µg/kg			
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	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	itional information available

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

### **SECTION 14: Transport information**

Department of Transportation	
Department of fransportation	,

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
- DOT Special Provisions (49 CFR 172.102)

- : UN2811 Toxic solids, organic, n.o.s., 6.1, II
- : UN2811
- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : II Medium Danger
- : 212
- : 242
- : G Identifies PSN requiring a technical name

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.

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DOT Packaging Exceptions (49 CFR 173.xxx)	:	153			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	25 kg			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	100 kg			
DOT Vessel Stowage Location	:	passenger vesse passengers, or o	el carrying a number of pas one passenger per each 3 els in which the number of	sengers m of ove	nder deck" on a cargo vessel and on a s limited to not more than the larger of 25 erall vessel length; and (ii) "On deck only" or gers specified in paragraph (k)(2)(i) of this
Other information	:	No supplementar	ry information available.		
TDG					
No additional information available					
Transport by sea					
UN-No. (IMDG)	:	2811			
Proper Shipping Name (IMDG)	:	TOXIC SOLID, C	DRGANIC, N.O.S.		
Class (IMDG)	:	6.1 - Toxic substa	ances		
Packing group (IMDG)	:	II - substances pr	resenting medium danger		
Air transport					
UN-No. (IATA)	:	2811			
Proper Shipping Name (IATA)	:	Toxic solid, orgar	nic, n.o.s.		
Class (IATA)	:	6.1 - Toxic Subst	tances		
Packing group (IATA)	:	II - Medium Dang	ger		
SECTION 15: Regulatory information	า				
15.1. US Federal regulations					
All components of this product are listed, or exe Substances Control Act (TSCA) inventory exce			n the United States Enviro	nmental	Protection Agency Toxic
5,6-Dichloro-2-(trifluoromethyl)-1H-benzimidaz	ole		CAS No 2338-25-2		100%
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting require and 40 CFR Part 372.					
15.2. International regulations					
CANADA					
No additional information available					

**EU-Regulations** No additional information available

National regulations No additional information available

### 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 text of H-phrases:	
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) 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
H300	Fatal 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	<ul> <li>4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.</li> </ul>
NFPA fire hazard	: 0 - Materials that will not burn.



HMIS III Rating Health

: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures

Flammability Physical

: 0 Minimal Hazard - Materials that will not burn

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

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.

0

0

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.