

5-Chloropyrazine-2-carbonitrile Safety Data Sheet 3H375X7 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/19/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 5-Chloropyrazine-2-carbonitrile
CAS No	: 36070-75-4
Product code	: 3H37-5-X7
Formula	: C5H2CIN3
Synonyms	: 2-Chloro-5-cyanopyrazine
Other means of identification	: MFCD09607700
	f 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 supplication of the supplicati	he safety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of <i>J</i> T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synque	
1.4. Emergency telephone nun	nber
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identi	fication
2.1. Classification of the subst	ance or mixture
Classification (GHS-US)	
Acute Tox. 4 (Inhalation) H332 - Ha Skin Irrit. 2 H315 - Ca	armful if swallowed armful if inhaled auses skin irritation
Acute Tox. 4 (Inhalation) H332 - Ha Skin Irrit. 2 H315 - Ca Eye Irrit. 2A H319 - Ca STOT SE 3 H335 - Ma	armful if inhaled
Acute Tox. 4 (Inhalation) H332 - Ha Skin Irrit. 2 H315 - Ca Eye Irrit. 2A H319 - Ca STOT SE 3 H335 - Ma Full text of H-phrases: see section 16	armful if inhaled auses skin irritation auses serious eye irritation
Acute Tox. 4 (Inhalation)H332 - HaSkin Irrit. 2H315 - CaEye Irrit. 2AH319 - CaSTOT SE 3H335 - MaFull text of H-phrases: see section 162.2.Label elements	armful if inhaled auses skin irritation auses serious eye irritation
Acute Tox. 4 (Inhalation)H332 - HaSkin Irrit. 2H315 - CaEye Irrit. 2AH319 - CaSTOT SE 3H335 - MaFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	armful if inhaled auses skin irritation auses serious eye irritation
Acute Tox. 4 (Inhalation)H332 - HaSkin Irrit. 2H315 - CaEye Irrit. 2AH319 - CaSTOT SE 3H335 - MaFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	armful if inhaled auses skin irritation auses serious eye irritation
Acute Tox. 4 (Inhalation) H332 - Ha Skin Irrit. 2 H315 - Ca Eye Irrit. 2A H319 - Ca STOT SE 3 H335 - Ma Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	armful if inhaled auses skin irritation auses serious eye irritation ay cause respiratory irritation
Acute Tox. 4 (Inhalation)H332 - HaSkin Irrit. 2H315 - CaEye Irrit. 2AH319 - CaSTOT SE 3H335 - MaFull text of H-phrases: see section 16	armful if inhaled auses skin irritation auses serious eye irritation ay cause respiratory irritation
Acute Tox. 4 (Inhalation) H332 - Ha Skin Irrit. 2 H315 - Ca Eye Irrit. 2A H319 - Ca STOT SE 3 H335 - Ma Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 armful if inhaled auses skin irritation auses serious eye irritation ay cause respiratory irritation ay cause respiratory irritation i warning i H302+H332 - Harmful if swallowed or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation

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	P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated of P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	Get medical advice/a clothing and wash it b d place. Keep contain	attention before reuse ner tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (Gl	HS US)		
Not applicable			
SECTION 3: Composition/info	ormation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
5-Chloropyrazine-2-carbonitrile	(CAS No) 36070-75-4	<= 100	Acute Tox. 4 (Oral), H302
(Main constituent)			Acute Tox. 4 (Inhalation), H332 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 measure	es		
4.1. Description of first aid mea			
First-aid measures general	where possible). Move the affected pe	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.	
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical ad		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact	present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-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 effects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate	e medical attention and special treatment neede	d	
Treat symptomatically.			
SECTION 5: Firefighting mea	sures		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	e. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising fro	m the substance or mixture		
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydrog	gen chloride. Nitrogen oxides.
5.3. Advice for firefighters	· -		-
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protective of	clothing in combinatio	on with self contained breathing
	apparatus. For further information refe		
SECTION 6: Accidental releas	se measures		
6.1. Personal precautions, prot	ective equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. En	sure adequate air ve	ntilation. Do not breathe dust.
6.1.1. For non-emergency persor	nnel		
Emergency procedures	: Only qualified personnel equipped wit	h suitable protective	equipment may intervene.

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6.1.2. For emergency respond	ders
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 precaut	ions
Avoid release to the environment. I	Notify authorities if product enters sewers or public waters.
6.3. Methods and material f	or containment 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 sect	tions
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe ha	Indling
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 sto	rage, 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

Storage area : Store in dry, cool, well-ventilated area.

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 properties

9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 44 - 45 °C
Freezing point	: No data available
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

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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	: 139.54 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**

OFOTION 40. Otability

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	litional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	litional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong bases. Strong oxidizing agents. Strong reducing agents.
10.6.	Hazardous decomposition products
Undor	normal conditions of storage and use, hereadous decomposition products should not be produced. Hereadous decomposition products in some of

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

Acute toxicity	: Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
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

SECT	SECTION 12: Ecological information			
12.1.	Toxicity			
No add	litional information available			
12.2.	Persistence and degradability			
No add	litional information available			
12.3.	Bioaccumulative potential			
No add	ditional information available			
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	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.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated for transport	
TDG	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informatio	on
15.1. US Federal regulations	
All components of this product are listed, or ex Substances Control Act (TSCA) inventory exce	xcluded from listing, on the United States Environmental Protection Agency Toxic ept for:
Substances Control Act (TSCA) inventory exce 5-Chloropyrazine-2-carbonitrile This product or mixture does not contain a toxi	ept for:
Substances Control Act (TSCA) inventory exce 5-Chloropyrazine-2-carbonitrile This product or mixture does not contain a toxi CFR §372.38(a) subject to the reporting requir	cept for: CAS No 36070-75-4 100% kic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40
Substances Control Act (TSCA) inventory exce 5-Chloropyrazine-2-carbonitrile This product or mixture does not contain a toxi CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. 15.2. International regulations CANADA	cept for: CAS No 36070-75-4 100% kic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40
Substances Control Act (TSCA) inventory exce 5-Chloropyrazine-2-carbonitrile This product or mixture does not contain a toxi CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. 15.2. International regulations CANADA	cept for: CAS No 36070-75-4 100% kic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40
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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. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H332	Harmful 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. : 0 - Materials that will not burn.
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	: 0 Minimal Hazard - Materials that will not burn
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.