

# 5-Chloro-1,3-benzothiazol-2(3H)-one Safety Data Sheet 8H705W3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/20/2018 Version: 1.0

SECTION 1: Identification			
.1. Identification			
Product form	: Substance		
Substance name	: 5-Chloro-1,3-benzothiazol-2(3H)-one		
CAS No	20600-44-6		
Product code	: 8H70-5-W3		
Formula	: C7H4CINOS		
Synonyms	5-Chloro-2,3-dihydro-2-oxo-1,3-benzothiazole		
Other means of identification	: MFCD00060125		
	substance or mixture and uses advised against		
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development		
1.3. Details of the supplier of the sa	ifety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlab</u>			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2. Honord(a) identificat	lien		
SECTION 2: Hazard(s) identificat			
	ormixture		
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye	irritation		
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation		
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	irritation		
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation		
Skin Irrit. 2       H315 - Causes skin irritatior         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation		
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation by irritation : : : irritation : : : : : : : : : : : : : : : : : :		
Skin Irrit. 2       H315 - Causes skin irritatior         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation by irritation : : : : : : : : : : : : : : : : :		
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	<ul> <li>irritation by irritation</li> <li>: irritation </li> <li>: irritation irritation irritation irritation H315 - Causes skin irritation H319 - Causes serious eye irritation </li> </ul>		

# 5-Chloro-1,3-benzothiazol-2(3H)-one Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3.	Other hazards				
	onal information available				
.4.	Unknown acute toxicity (GHS US)				
lot appli	• • • •				
	ON 3: Composition/information	on in	aradiante		
.1.	Substance		greatents		
ubstanc		Mono	-constituent		
		IVIOITO			
Name			Product identifier	%	Classification (GHS-US)
5-Chloro (Main con	1,3-benzothiazol-2(3H)-one stituent)		(CAS No) 20600-44-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text o	of H-phrases: see section 16				·
.2.	Mixture				
ot appli	cable				
ECTIO	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid ı	measures general :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
irst-aid ı	measures after inhalation :		ve person to fresh air and keep comforta ation. Get medical advice/attention.	ble for breathir	ng. If not breathing, give artificial
irst-aid ı	measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atter	ntion.
irst-aid ı	2	prese	diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get	medical advice	/attention.
irst-aid ı	measures after ingestion :		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
.2.	Most important symptoms and effects	, both a	acute and delayed		
symptom	ns/injuries :		nost important known symptoms and effe nd/or in section 11.	cts are describ	ed in the labelling (see section
.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
reat syn	nptomatically.				
SECTIO	ON 5: Firefighting measures				
.1.	Extinguishing media				
	0 0		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	wder. Water sp	oray. Use extinguishing media
.2.	Special hazards arising from the subs	tance o	or mixture		
ire haza	ard :	Thern oxides	nal decomposition generates: Carbon ox s.	des. Hydrogen	chloride. Nitrogen oxides. Sulfur
.3.	Advice for firefighters				
irefightir		In cas	e of fire: Evacuate area.		
-	•	Wear	gas tight chemically protective clothing in	n combination v	vith self contained breathing
			atus. For further information refer to sect		
ECTL	ON 6: Accidental release measu	ires _			
.1.	Personal precautions, protective equip		and emergency procedures		
			ate unnecessary personnel. Ensure ade	quate air ventil	ation. Do not breathe dust.
1 4	For non-omorronou norocontal				
.1.1.	For non-emergency personnel	Only	welified personnel equipped with evitable	o protoctivo c	ipmont may inter and
mergen	cy procedures :	Only o	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.
.1.2.	For emergency responders				
rotective	e equipment :		t attempt to take action without suitable o section 8: "Exposure controls/personal		oment. For further information
.2.	Environmental precautions				
			uct enters sewers or public waters.		

## 5-Chloro-1,3-benzothiazol-2(3H)-one

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	
<b>SECTION 7: Handling and sto</b>	rage
7.1. Precautions for safe handlin	ng
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	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.

### 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. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Respiratory protection Protection. Other information : Safety shoes. 29 CFR 1910.136: Foot Protection.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 237 - 240 °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
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	: 185.631 g/mol

# 5-Chloro-1,3-benzothiazol-2(3H)-one Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regi

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	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and stor	rage 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, haze fire, see Section 5.	ardous decomposition products should not be produced. Hazardous decomposition products in case o
<b>SECTION 11: Toxicological informati</b>	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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

SECT	ON 12: Ecological information			
12.1.	Toxicity			
No addit	onal 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 additional information available				
09/20/201	8	EN (English US)	SDS ID: 8H705W3	4/6

## 5-Chloro-1,3-benzothiazol-2(3H)-one

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerat	ions
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 information**

#### 15.1. US Federal regulations

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

5-Chloro-1,3-benzothiazol-2(3H)-one	CAS No 20600-44-6	100%

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

5-Chloro-1,3-benzothiazol-2(3H)-one (20600-44-6) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) 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:

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
H335	May cause respiratory irritation

## 5-Chloro-1,3-benzothiazol-2(3H)-one

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard	: 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	: 2 Moderate Hazard - Temporary or minor injury may occur	
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.