

**2-Chlorobenzoyl isothiocyanate** Safety Data Sheet 8668501 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/17/2016 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 2-Chlorobenzoyl isothiocyanate
CAS No	: 5067-90-3
Product code	: 8668-5-01
Formula	: C8H4CINOS
Synonyms	: o-Chlorobenzoyl isothiocyanate
Other means of identification	: MFCD00037829
1.2. Relevant identified uses of the s	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 saf	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) identificati	ion
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause re	n allergic skin reaction
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16	n allergic skin reaction
Skin Sens. 1     H317 - May cause an       STOT SE 3     H335 - May cause res       Full text of H-phrases: see section 16       2.2.     Label elements	n allergic skin reaction
Skin Sens. 1     H317 - May cause an STOT SE 3       STOT SE 3     H335 - May cause res       Full text of H-phrases: see section 16       2.2.     Label elements       GHS-US labeling	n allergic skin reaction aspiratory irritation
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	n allergic skin reaction aspiratory irritation
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>allergic skin reaction aspiratory irritation</li> <li>:</li></ul>
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16	n allergic skin reaction aspiratory irritation
Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>allergic skin reaction aspiratory irritation</li> <li>:</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>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention</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			
Other hazards not contributing to the classification	: Contact with acids liberates toxic gas. I	achrymator.	
2.4. Unknown acute toxicity (GHS US			
Not applicable			
SECTION 3: Composition/information	tion on ingredients		
3.1. Substance	<b></b>		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Chlorobenzoyl isothiocyanate (Main constituent)	(CAS No) 5067-90-3	<= 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
SECTION 4: First aid measures 4.1. Description of first aid measures		seek medical advic	e immediately (show the label
SECTION 4: First aid measures 4.1. Description of first aid measures	: In case of accident or if you feel unwell where possible). Move the affected per		
SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general	: In case of accident or if you feel unwell	sonnel away from th omfortable for breath	e contaminated area.
SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation	<ul> <li>In case of accident or if you feel unwell where possible). Move the affected per</li> <li>Remove person to fresh air and keep c respiration. Get immediate medical adv</li> <li>Wash with plenty of soap and water. G</li> </ul>	sonnel away from th omfortable for breath ice/attention. et immediate medica	e contaminated area. ning. If not breathing, give artificial Il advice/attention.
SECTION 4: First aid measures         4.1.       Description of first aid measures         First-aid measures general         First-aid measures after inhalation         First-aid measures after skin contact         First-aid measures after eye contact	<ul> <li>In case of accident or if you feel unwell where possible). Move the affected per</li> <li>Remove person to fresh air and keep c respiration. Get immediate medical adv</li> <li>Wash with plenty of soap and water. G</li> <li>Immediately flush eyes thoroughly with present and easy to do. Continue rinsir</li> </ul>	sonnel away from th omfortable for breath ice/attention. et immediate medica water for at least 15 g. Get immediate m	e contaminated area. ning. If not breathing, give artificial Il advice/attention. minutes. Remove contact lenses, if edical advice/attention.
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SECTION 6: Accidental release meas			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,			
General measures	vapor or spray.		
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".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.		
6.2. Environmental precautions			
Avoid release to the environment. Notify authoriti	es if product enters sewers or public waters.		
6.3. Methods and material for containme	nt and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: 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 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, includir	ig any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator		
Prohibitions on mixed storage	: Do not store with: Acids.		
Storage area	: Store in dry, well-ventilated area.		
SECTION 8: Exposure controls/perso	onal protection		
8.1. Control parameters			
No additional information available			

8.2. Exposure controls	
Appropriate engineering contro	<ul> <li>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.</li> </ul>
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	<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.
<b>SECTION 9: Physical a</b>	nd chemical properties
9.1. Information on bas	ic physical and chemical properties
Physical state	

Physical state	: Liquid	
Color	: No data available	
12/08/2016	EN (English US)	SDS ID: 8668501

# 2-Chlorobenzoyl isothiocyanate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rule

according to Federal Register / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Rules and Regulations	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 130 °C (@ 5 mm Hg)	
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	
Specific gravity / density	: 1.3552 g/ml (@ 20 °C)	
Molecular mass	: 197.64 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	: 1.6452 (@ 20 °C)	
SECTION 10: Stability and reactivit		
	y	
10.1.         Reactivity           No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and s		
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 acids. Strong oxidizing agents.		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, h fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of	
<b>SECTION 11: Toxicological informa</b>	ation	
11.1. Information on toxicological effect		
Acute toxicity	: Oral: Toxic if swallowed.	
Skin corrosion/irritation	: Causes skin irritation. : Causes serious eve damage	
	Lansas sennus eve namane	

Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity

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Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
SECTION 12: Ecological information		

12.1.	Toxicity			
No addi	No additional information available			
12.2.	Persistence and degradability			
No addi	tional information available			
12.3.	Bioaccumulative potential			
No addi	No additional information available			
12.4.	Mobility in soil			
No addi	No additional information available			
12.5.	Other adverse effects			

No additional 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

DOT Special Provisions (49 CFR 172.102)

- : UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
- : UN2810
- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153

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DOT Quantity Limitations Passenger aircraft/ra (49 CFR 173.27)	ail : 60 L
DOT Quantity Limitations Cargo aircraft only ( CFR 175.75)	49 : 220 L
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)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

### 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

Bubstances Control Act (186A) inventory exception.		
2-Chlorobenzoyl isothiocyanate	CAS No 5067-90-3	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**

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. 3 (Oral)	Acute toxicity (oral) Category 3
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	Skin Sens. 1	Skin sensitization Category 1
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H301	Toxic if swallowed
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity		<ul> <li>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 II	I Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.