

**3-Chlorobenzoyl isothiocyanate** Safety Data Sheet 8668502 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/17/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-Chlorobenzoyl isothiocyanate		
CAS No	: 66090-36-6		
Product code	: 8668-5-02		
Formula	: C8H4CINOS		
Synonyms	: m-Chlorobenzoyl isothiocyanate		
Other means of identification	: MFCD00041103		
		d a value t	
	substance or mixture and uses advise	a against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developr	nent	
1.3. Details of the supplier of the sa	fety 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 - www.synquestlab			
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	or mixture		
Classification (GHS-US)			
Skin Sens. 1     H317 - May cause a       STOT SE 3     H335 - May cause re       Full text of H-phrases: see section 16	n allergic skin reaction espiratory irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS05 GHS06	GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H315 - Causes skin irritation H317 - May cause an allergic sk H318 - Causes serious eye dam H335 - May cause respiratory irr	age	
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing fumes, n P264 - Wash skin thoroughly aft P270 - Do not eat, drink or smol P271 - Use only outdoors or in a P272 - Contaminated work cloth P280 - Wear protective gloves/p P301+P310 - If swallowed: Imm P302+P352 - If on skin: Wash w P304+P340 - If inhaled: Remove P305+P351+P338 - If in eyes: F lenses, if present and easy to do</li> </ul>	hist, spray, vapors er handling te when using this product well-ventilated area ing must not be allowed out of the workplace rotective clothing/eye protection/face protection ediately call a poison center/doctor/ ith plenty of soap and water e person to fresh air and keep comfortable fo inse cautiously with water for several minute	ion r breathing
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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	: Conta	act with acids liberates toxic gas. Lachryr	nator.	
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-Chlorobenzoyl isothiocyanate (Main constituent)		(CAS No) 66090-36-6	<= 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				
4.1. Description of first aid measures			e e d'a e la chaire d	ere e d'atale (ale contra lale al
First-aid measures general	: 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 comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact	: Wash	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after eye contact	prese	ent and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.
First-aid measures after eye contact	prese : Do N	, , , ,	immediate med by mouth to an	ical advice/attention. unconscious person. Rinse
First-aid measures after eye contact	prese : Do N mout	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical	immediate med by mouth to an	ical advice/attention. unconscious person. Rinse
First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects	prese : Do Ne mouth s, both : The r	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical	immediate med by mouth to an advice/attention	ical advice/attention. unconscious person. Rinse
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First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects         Symptoms/injuries       :         4.3.       Indication of any immediate medical a	prese : Do N mouth s, both : The r 2.2) a	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11.	immediate med by mouth to an advice/attention	ical advice/attention. unconscious person. Rinse
First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects         Symptoms/injuries       :         4.3.       Indication of any immediate medical a         Treat symptomatically.	prese : Do N mouth s, both : The r 2.2) a	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11.	immediate med by mouth to an advice/attention	ical advice/attention. unconscious person. Rinse
First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects         Symptoms/injuries       :         4.3.       Indication of any immediate medical a         Treat symptomatically.       :         SECTION 5: Firefighting measures	prese : Do N mouth s, both : The r 2.2) a	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11.	immediate med by mouth to an advice/attention	ical advice/attention. unconscious person. Rinse
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First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects         Symptoms/injuries       :         4.3.       Indication of any immediate medical a         Treat symptomatically.       :         SECTION 5: Firefighting measures       :         5.1.       Extinguishing media         Suitable extinguishing media       :	prese : Do N mouth <b>s, both</b> : The r 2.2) a <b>attentio</b> : Alcoh approx	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11. n and special treatment needed	immediate med by mouth to an advice/attention	ical advice/attention. unconscious person. Rinse ed in the labelling (see section
First-aid measures after eye contact       Indication of any immediate medical a         A.2.       Most important symptoms and effects         Symptoms/injuries       Indication of any immediate medical a         Treat symptomatically.       SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media       Image: Section of the subs	prese : Do N moutl s, both : The r 2.2) a attentio	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11. n and special treatment needed nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox	immediate med by mouth to an advice/attention acts are describe	ical advice/attention. unconscious person. Rinse ed in the labelling (see section
First-aid measures after eye contact       Image: Symptoms and effects         4.2.       Most important symptoms and effects         Symptoms/injuries       Image: Symptoms/injuries         4.3.       Indication of any immediate medical a         Treat symptomatically.       SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media       Image: Symptom and effects         5.2.       Special hazards arising from the subs         Fire hazard       Image: Symptom and effects	<ul> <li>prese</li> <li>Do N mouth</li> <li>s, both</li> <li>The r 2.2) a</li> <li>attentio</li> <li>attentio</li> <li>Alcoh appro</li> <li>stance of the r oxide</li> <li>Risk of</li> </ul>	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11. n and special treatment needed nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox	immediate med by mouth to an advice/attention ects are describe owder. Water sp des. Hydrogen	ical advice/attention. unconscious person. Rinse ed in the labelling (see section ray. Use extinguishing media chloride. Nitrogen oxides. Sulfur
First-aid measures after eye contact       Image: Symptoms and effects         4.2.       Most important symptoms and effects         Symptoms/injuries       Image: Symptoms and effects         4.3.       Indication of any immediate medical a         Treat symptomatically.       SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media       Image: Symptom and effects         5.2.       Special hazards arising from the subs         Fire hazard       Image: Symptom and effects	<ul> <li>prese</li> <li>Do N mouth</li> <li>s, both</li> <li>The r 2.2) a</li> <li>attentio</li> <li>attentio</li> <li>Alcoh appro</li> <li>stance of the r oxide</li> <li>Risk of</li> </ul>	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11. n and special treatment needed nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox s. of explosion if heated under confinement	immediate med by mouth to an advice/attention ects are describe owder. Water sp des. Hydrogen	ical advice/attention. unconscious person. Rinse ed in the labelling (see section ray. Use extinguishing media chloride. Nitrogen oxides. Sulfur
First-aid measures after eye contact       :         First-aid measures after ingestion       :         4.2.       Most important symptoms and effects         Symptoms/injuries       :         4.3.       Indication of any immediate medical a         Treat symptomatically.       :         SECTION 5: Firefighting measures       :         5.1.       Extinguishing media         Suitable extinguishing media       :         5.2.       Special hazards arising from the subs         Fire hazard       :         Explosion hazard       :         5.3.       Advice for firefighters         Firefighting instructions       :	<ul> <li>prese</li> <li>Do Nimoutil</li> <li>s, both</li> <li>The r 2.2) a</li> <li>attentio</li> <li>attentio</li> <li>Alcohappro</li> <li>stance of conta</li> <li>Risk of conta</li> <li>In cas</li> </ul>	ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed nost important known symptoms and effe and/or in section 11. n and special treatment needed nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox s. of explosion if heated under confinement	immediate med by mouth to an advice/attention ects are describe owder. Water sp ides. Hydrogen Use water spra	ical advice/attention. unconscious person. Rinse ed in the labelling (see section ray. Use extinguishing media chloride. Nitrogen oxides. Sulfur ay or fog for cooling exposed sk of explosion.

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SECTION 6: Accidental release me	asures
	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, 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 author	rities if product enters sewers or public waters.
6.3. Methods and material for containing	nent 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, include	ding 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/per	sonal protection
8.1. Control parameters	
No additional information available	

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.
<b>SECTION 9: Physical and chemica</b>	al properties
9.1. Information on basic physical an	d chemical properties

9.1.	Information on basic physical and chemical properties				
Physical	state	: Liquid			
Color		: No data available			
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	-
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	: 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
Specific gravity / density	: 1.32 g/ml (@ 25 °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

No additional information available

<b>SECTION 10: Stability and reactive</b>	/ity			
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
The product is stable at normal handling and	I storage conditions.			
10.3. Possibility of hazardous reaction	ns			
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 produ				
	, hazardous decomposition products should not be produced. Hazardous decomposition products in case of			
fire, see Section 5.				
SECTION 11: Toxicological inform	nation			
11.1. Information on toxicological effe				
Acute toxicity	: Oral: Toxic if swallowed.			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Causes serious eye damage.			

- Respiratory or skin sensitization : May cause an allergic skin reaction.
- Germ cell mutagenicity : Not classified
  - : Not classified
- Carcinogenicity 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 add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional 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/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 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:

3-Chlorobenzoyl isothiocyanate CAS No 66090-36-6 100%	- Substances Solution Act (190A) inventory exception.				
	3-Chlorobenzoyl isothiocyanate	CAS No 66090-36-6			

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>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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>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)</li> </ul>
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.