

3,5-Bis(trifluoromethyl)phenyl isothiocyanate

Safety Data Sheet 7868335 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/06/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3,5-Bis(trifluoromethyl)phenyl isothiocyanate
CAS No	: 23165-29-9
Product code	: 7868-3-35
Formula	: C9H3F6NS
Synonyms	: 1,3-Bis(trifluoromethyl)-5-isothiocyanatobenzene
Other means of identification	: MFCD00040838
.2. Relevant identified uses of the s	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
I.3. Details of the supplier of the saf	iety 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 - <u>www.synquestlabs</u>	
I.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	
Acute Tox. 3 (Oral) H301 - Toxic if swallo	
Acute Tox. 3 (Oral)H301 - Toxic if swalloSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	rritation us eye irritation
Acute Tox. 3 (Oral)H301 - Toxic if swalloSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause restFull text of H-phrases: see section 16	rritation us eye irritation
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	rritation us eye irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallo Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause rest Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	rritation us eye irritation spiratory irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallo Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou 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)	rritation us eye irritation spiratory irritation
Acute Tox. 3 (Oral)H301 - Toxic if swalloSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause restFull text of H-phrases: see section 162.2.Label elements	rritation us eye irritation spiratory irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallo Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou 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)	rritation us eye irritation spiratory irritation : i = i = i = i = i = i = i = i = i = i =

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

	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	rymator.		
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)
3,5-Bis(trifluoromethyl)phenyl isothiocyanate (Main constituent)		(CAS No) 23165-29-9	<= 100	Acute Tox. 3 (Oral), H301 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 measures				
4.1. Description of first aid measures				
J.	-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.			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.			
		with plenty of soap and water. Get imme		
First-aid measures after eye contact	: 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.			
irst-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				
mptoms/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 medical	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the sub-	stance	or mixture		
Fire hazard	: Therr oxide	nal decomposition generates: Carbon ox s.	ides. Hydrogen	fluoride. Nitrogen oxides. Sulfur
Explosion hazard	 Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. 			
0 0	ting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			<i>i</i> th self contained breathing
SECTION 6: Accidental release meas	ures			
6.1. Personal precautions, protective equ		and emergency procedures		
General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.				

Safety Data Sheet

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

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 authorities if product enters sewers or public waters.

6.3. Methods and material for containme	Methods and material for containment 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				

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, includi	ng 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 area	: Store in dry, cool, well-ventilated area.

SECTION 2. EV	posure controls/	norconal	protoction
SECTION 0. EX	Dosure controis/	Dersonal	DIDLECTOL

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 chemic	al properties	
9.1. Information on basic physical a	nd chemical properties	
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 109 - 110 °C (@ 35 mm Hg)	
12/06/2018	EN (English US)	SDS ID: 7868335

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

Flash point	: 108 °C
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	: 1.485 g/ml (@ 20 °C)
Molecular mass	: 271.182 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

: 1.4336 (@ 20 °C)

10.1.	Reactivity
No add	itional 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	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong oxidizing agents.
10.6.	Hazardous decomposition products

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Toxic if swallowed.

3,5-Bis(trifluoromethyl)phenyl isothiocyana	te (23165-29-9)		
ATE US (oral)	100.000 mg/kg body weight		
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		
12/06/2018	EN (English US)	SDS ID: 7868335	4/7

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

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects No additional information available	
SECTION 13: Disposal considerations	
13.1. 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	UN2206 Isocyanates, toxic, n.o.s. (flash point more than 61 degrees C and boiling point less than 300 degrees C), 6.1, III
UN-No.(DOT)	UN2206
	Isocyanates, toxic, n.o.s.
	flash point more than 61 degrees C and boiling point less than 300 degrees C
Transport hazard class(es) (DOT)	6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	6.1 - Poison
	6
Packing group (DOT)	III - Minor Danger
	203
ö ö (, , ,	: 241
-	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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
	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. TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.
	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
DOT Quantity Limitations Passenger aircraft/rail : (49 CFR 173.27)	60 L

Safety Data Sheet

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

passenger vessel cárrying a number of passengers limited to not more than the larger of 25 passengers. or one passenger vessels in which the limiting number of passengers is exceeded. DOT Vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT wassel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters" DDT vessel Stowage Other : No supplementary information available. Transport Stop Stop Stop Stop Stop Stop Stop Sto	DOT Quantity Limitations Cargo aircraft or CFR 175.75)	nly (49 : 220 L			
Dther information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 2206 Proper Shipping Name (IMDG) : ISOCYANATES, TOXIC, N.O.S. Class (IMDG) : 6.1 - Toxic substances Packing group (IMDG) : III - substances presenting low danger Air transport UN-No. (IATA) : 2206 Proper Shipping Name (IATA) : Isocyanates, toxic, n.o.s. Class (IATA) : Socyanates, toxic, n.o.s. Class (IATA) : III - Minor Danger SECTION 15: Regulatory information SECTION 15: Regulatory information 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: 3.5-Bis(trifluoromethylphenyl isothiocyanate CAS No 23165-29-9 100% 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 §372.3(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.	DOT Vessel Stowage Location	passenger vess passengers, or (el carrying a number of passengers li one passenger per each 3 m of overa	nited to not more than the larger of 25 Il vessel length, but is prohibited from	
TDG No additional information available Transport by sea UN-No. (MDG) : 2206 Proper Shipping Name (IMDG) : ISOCYANATES, TOXIC, N.O.S. Class (IMDG) : 6.1 - Toxic substances Packing group (IMDG) : ISOCYANATES, TOXIC, N.O.S. Class (IMDG) : C.1 - Toxic substances Packing group (IMDG) : III - substances presenting low danger Air transport	DOT Vessel Stowage Other	: 25 - Shade from	n radiant heat,40 - Stow "clear of living	quarters"	
No additional information available Transport by sea UN-No. (IMDG)	Other information	: No supplementa	ary information available.		
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No additional information available EU-Regulations No additional information available National regulations	15.2. International regulations				
No additional information available National regulations	CANADA No additional information available				
	EU-Regulations No additional information available				
3,5-Bis(trifluoromethyl)phenyl isothiocyanate (23165-29-9)					
	National regulations				

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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) 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
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Safety Data Sheet

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

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.		
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.		
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	: 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.