

Safety Data Sheet 76661X1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0 Date of issue: 04/11/2016

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 4-(Methylthio)aniline
CAS No	: 104-96-1
Product code	: 7666-1-X1
Formula	: C7H9NS
Synonyms	: 4-(Methylmercapto)aniline; 4-Aminothioanisole
Other means of identification	: MFCD00007889
1.2. Relevant identified uses of 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 sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab 1.4. Emergency telephone number	
1.4. Emergency telephone number Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Eye Irrit. 2A H319 - Causes serious eye	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation
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Eye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 162.2.Label elements	irritation bry irritation : : : : : : : : : : : : : : : : : : :
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) Signal word (GHS-US)	 irritation bry irritation : irritation

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2.3. Other hazards			
Other hazards not contributing to the classification	: Stench.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informatio	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-(Methylthio)aniline (Main constituent)	(CAS No) 104-96-1	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16	1		
3.2. Mixture			
Not applicable			
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, see where possible). Move the affected personn		
First-aid measures after inhalation	: Remove person to fresh air and keep comfor respiration. Get medical advice/attention.	rtable for breathir	ng. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. Get me	edical advice/atter	ntion.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with wate present and easy to do. Continue rinsing. G		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anythi mouth out with water. Get medical advice/a		n unconscious person. Rinse
4.2. Most important symptoms and effect	ts, both acute and delayed		
Symptoms/injuries	: The most important known symptoms and e 2.2) and/or in section 11.	ffects are describ	ed in the labelling (see section
4.3. Indication of any immediate medica	attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry appropriate for surrounding fire.	powder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su	bstance or mixture		
Fire hazard	: Thermal decomposition generates: Carbon	oxides. Nitrogen o	oxides. Sulfur oxides.
Explosion hazard	: Risk of explosion if heated under confineme containers. May form flammable/explosive v		ay or fog for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire rem	otely due to the r	isk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothin apparatus. For further information refer to s		
SECTION 6: Accidental release meas			
	uipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure a vapor or spray.	dequate air ventil	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suita	able protective eq	uipment may intervene.
6.1.2. For emergency responders	_		
Protective equipment	: Do not attempt to take action without suitab refer to section 8: "Exposure controls/perso		oment. For further information

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Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify auth	orities if product enters sewers or public waters.
6.3. Methods and material for contair	ment 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	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
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, inclu	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

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.	nformation on basic physical and chemical properties		
Physica	state	: Liquid	
Color		: No data available	
Odor		: Stench.	
Odor the	eshold	: No data available	

рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	272 - 273 °C
Flash point	:	110 °C
Relative evaporation rate (butyl acetate=1)	:	No data available

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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	: 1.119 g/ml (@ 25 °C)
Molecular mass	: 139.22 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	

9.2. Other information

Refractive index

: 1.639 (@ 20 °C)

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
Keep aw	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong o	xidizing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.
SECTI	ON 11: Toxicological information
11.1.	Information on toxicological effects
Acute to:	xicity : Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	 Not classified May cause respiratory irritation. Not classified
Aspiration hazard Potential Adverse human health effects and symptoms	 Not classified Overexposure to this material may result in methemoglobinemia. Cyanosis may occur (lips and fingernails turn blue).

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SECT	ION 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 add	itional information available

SECTION 13: Disposal consideration	15
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	: UN3334 Aviation regulated liquid, n.o.s., 9	
UN-No.(DOT)	: UN3334	
Proper Shipping Name (DOT)	: Aviation regulated liquid, n.o.s.	
Transport hazard class(es) (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140	
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 204	
DOT Symbols	: A - Material is regulated as a hazardous material only when transported by air,G - Identifies PSN requiring a technical name	
DOT Special Provisions (49 CFR 172.102)	: A35 - This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members s as to prevent the correct performance of assigned duties.	or
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
Other information	: No supplementary information available.	
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	: 3334	
Proper Shipping Name (IMDG)	: AVIATION REGULATED LIQUID, N.O.S.	
Class (IMDG)	: 9 - Miscellaneous dangerous compounds	
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Air transport	
UN-No. (IATA)	: 3334
Proper Shipping Name (IATA)	: Aviation regulated liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15:	Populatory	intormation
SECTION 1J.	NEULIALUIV	Information

15.1. US Federal regulations

4-(Meth	vlthio)anilir	ne (104-96-1)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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

4-(Methylthio)aniline (104-96-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

4-(Methylthio)aniline (104-96-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law)

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:

Full text of H-philases.		Serieus que demose (que irritation Catagon / 24		
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 Causes serious eye irritation		
H319				
H335		May cause respiratory irritation	May cause respiratory irritation	
NFPA health hazard		d exposure could cause temporary ole residual injury unless prompt en.		
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.			
NFPA reactivity	: 0 - Normally stable, ev and are not reactive wi	en under fire exposure conditions,		
HMIS III Rating				
Health	: 2 Moderate Hazard -	Femporary or minor injury may occur		
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)				
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