

Dimethylthiotoluenediamine (mixture of isomers) Safety Data Sheet 7766101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/11/2017 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Dimethylthiotoluenediamine (mixture of isomers)
CAS No	: 106264-79-3
Product code	: 7766-1-01
Formula	: C9H14N2S2
Synonyms	: Diaminodimethylthiotoluene; 3,5-Dimethylthio-2,4-(or 2,6-)toluenediamine
Other means of identification	: MFCD09056718
1.2. Relevant identified uses of the	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	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri Γ (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlab</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	
Classification (GHS-US)	
	an allergic skin reaction
Skin Sens. 1H317 - May cause aSTOT SE 3H335 - May cause reAquatic Acute 1H400 - Very toxic to	ous eye irritation an allergic skin reaction respiratory irritation
Skin Sens. 1H317 - May cause aSTOT SE 3H335 - May cause reAquatic Acute 1H400 - Very toxic toAquatic Chronic 1H410 - Very toxic toFull text of H-phrases: see section 16	ous eye irritation an allergic skin reaction respiratory irritation a aquatic life
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	P304+P340 - If inhaled: Remove perse P305+P351+P338 - If in eyes: Rinse of lenses, if present and easy to do. Con P312 - Call a POISON CENTER or do P321 - Specific treatment (see supple P330 - Rinse mouth P332+P313 - If skin irritation or crash o P333+P313 - If skin irritation or rash o P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated co P363 - Wash contaminated clothing be P391 - Collect spillage P403+P233 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container f	autiously with water t tinue rinsing octor/physician if you mental first aid instruc- Get medical advice/at ccurs: Get medical advice/a Get medical advice/a lothing and wash it be ofore reuse d place. Keep contain	for several minutes. Remove contact feel unwell ctions on this label) tention dvice/attention ttention efore reuse er tightly closed
2.3. Other hazards			
No additional information available			
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)
Dimethylthiotoluenediamine (mixture of isomers) (Main constituent)	(CAS No) 106264-79-3	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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			
First-aid measures general	: In case of accident or if you feel unwel where possible). Move the affected pe	rsonnel away from th	e contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical ad	vice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsi	ng. Get immediate m	edical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get immediate r		
	 ts, both acute and delayed The most important known symptoms 2.2) and/or in section 11. 	and effects are desc	ribed in the labelling (see section
Symptoms/injuries	: The most important known symptoms		ribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate medical	: The most important known symptoms 2.2) and/or in section 11.		ribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically.	: The most important known symptoms 2.2) and/or in section 11.		ribed in the labelling (see section
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Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media	: The most important known symptoms 2.2) and/or in section 11.	d	
Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	 The most important known symptoms 2.2) and/or in section 11. attention and special treatment needer Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire. 	d	
Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	 The most important known symptoms 2.2) and/or in section 11. attention and special treatment needer Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire. 	d e. Dry powder. Water	spray. Use extinguishing media

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5.3 Advice for firefighters	
5.3. Advice for firefighters	. In case of fire: Evacuate area. Fight fire remotely due to the rick of evaluation
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Wear gas tight chemically protective clothing in combination with self contained breathing
	apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	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 authority	orities if product enters sewers or public waters.
6.3. Methods and material for contain	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	
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, inclu	ding 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.
SECTION 8: Exposure controls/pe	rsonal 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.

: Wear suitable protective clothing.

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

Skin and body protection

Respiratory protection

Other information

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: No data available	
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	: 200 °C (@ 1.7 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	
Molecular mass	: 214.35 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		
SECTION 10: Stability and reactivit	у	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and s	torage 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, har fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of	
SECTION 11: Toxicological information		
11.1. Information on toxicological effect		
Acute toxicity	: Oral: Harmful if swallowed.	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	

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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

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	tional information available
12.2.	Persistence and degradability
No addit	tional information available
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil
No addit	tional information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal consider	rations
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 informa	ation
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:	

Substances Control Act (130A) inventory exception.			
Dimethylthiotoluenediamine (mixtu	ire of isomers)	CAS No 106264-79-3	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	
Dimethylthiotoluenediamine (mixture of isomers) (106264-79-3)	
Listed on the Canadian DSL (Domestic Sustances List)	

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EU-Regulat	ions	
Dimethylt	hiotoluenediamine (mixture of isomers) (106264-79-3)	
Listed on E	ELINCS (European List of Notified Chemical Substances)	
National rec		
Dimethylth	Dimethylthiotoluenediamine (mixture of isomers) (106264-79-3)	
Listed on H	he AICE (Australian Inventory of Chamical Substances)	

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on NZIoC (New Zealand Inventory of Chemicals) 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:

Acute toxicity (oral) Category 4
Hazardous to the aquatic environment - Acute Hazard Category 1
Hazardous to the aquatic environment - Chronic Hazard Category 1
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 2
Skin sensitization Category 1
Specific target organ toxicity (single exposure) Category 3
Harmful if swallowed
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

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	: 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.