

N-Methyl-2-nitroaniline Safety Data Sheet 4655101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/08/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: N-Methyl-2-nitroaniline		
CAS No	: 612-28-2		
Product code	: 4655-1-01		
Formula	: C7H8N2O2		
Synonyms	: 2-(Methylamino)nitrobenzen	0	
	: MFCD00007090	e	
Other means of identification 1.2. Relevant identified uses of the subs		viewed exercises	
		nseu against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	lopment	
1.3. Details of the supplier of the safety	data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>m</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compare	וy - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or n	nixture		
Classification (GHS-US)			
	irritation ous eye irritation	iged or repeated exposure	
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS06 GHS07	GHS08	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	H315 - Causes skin irritatior H319 - Causes serious eye H335 - May cause respirato	irritation	e
Precautionary statements (GHS-US)	P271 - Use only outdoors of P280 - Wear protective glov P301+P310 - If swallowed: I P302+P352 - If on skin: Wa P304+P340 - If inhaled: Rer	y after handling moke when using this product in a well-ventilated area es/protective clothing/eye protection/face protection mmediately call a poison center/doctor/ sh with plenty of soap and water nove person to fresh air and keep comfortable for es: Rinse cautiously with water for several minutes	- breathing
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 P311 - Call a POISON CENTER or doctor/physician P312 - Call a POISON CENTER or doctor/physician if you feel unwell P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P361 - Take off immediately all contaminated clothing P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing 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				
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/informa	ation on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identifier	%	Classification (GHS-US)	
N-Methyl-2-nitroaniline (Main constituent)	(CAS No) 612-28-2	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373	
ull text of H-phrases: see section 16		·		
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measure				
First-aid measures general	 In case of accident or if you feel unwork where possible). Move the affected p Remove person to fresh air and keep 	personnel away from th	ne contaminated area.	
	respiration. Get immediate medical a		ning. If not breathing, give artificial	
irst-aid measures after skin contact	: Wash with plenty of soap and water.	Get immediate medica	al advice/attention.	
irst-aid measures after eye contact	present and easy to do. Continue ring	: 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 mouth out with water. Get immediate			
.2. Most important symptoms and e				
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section	
	dical attention and special treatment need	ed		
reat symptomatically.				
SECTION 5: Firefighting measure	es			
.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media	
.2. Special hazards arising from the				
ire hazard	: Thermal decomposition generates: C	Carbon oxides. Nitroge	n oxides.	
.3. Advice for firefighters				
irefighting instructions	: In case of fire: Evacuate area.			
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information ref	clothing in combinatio fer to section 8: "Expos	n with self contained breathing sure controls/personal protection".	
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SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
General measures :	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. 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".				
6.2. Environmental precautions					
Avoid release to the environment. Notify authorities	if product enters sewers or public waters.				
6.3. 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 :	Minimize generation of dust. 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 dust, 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, including	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/personal protection					
8.1. Control parameters					
No additional information available					
8.2. Exposure 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.				
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. Information on basic physical and che	mical properties				
Physical state :	Solid				
Appearance :	Low melting solid.				
Color :	No data available				
Odor :	No data available				
Odor threshold :	No data available				

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рН	:	No data available
Melting point	:	35 - 38 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	113 °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
Molecular mass	:	152.15 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 reactivity					
10.1. Reactivity					
No additional information available					
10.2. Chemical stability					
The product is stable at normal handling and storage 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					
Acids. Acid chlorides. Acid anhydrides. Strong oxidizing agents.					
10.6. Hazardous decomposition products					
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.					
SECTION 11: Toxicological information					

11.1. Information on toxicological effects				
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.			
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)	: May cause damage to organs through prolonged or repeated exposure.			

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Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Overexposure to this material may result in methemoglobinemia. Cyanosis may occur (lips and fingernails turn blue).		
SECTION 12: Ecological informatic	on		
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 exhibition of information evolution			

No additional information available

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

Proper Shipping Name (DOT)

Hazard labels (DOT)

Transport hazard class(es) (DOT)

UN-No.(DOT)

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

- : UN2811
 - : Toxic solids, organic, n.o.s.
 - : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
 - : 6.1 Poison

Packing group (DOT)
DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)
DOT Symbols

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- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
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)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, 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	

N-Methyl-2-nitroaniline (612-28-2)

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

N-Methyl-2-nitroaniline (612-28-2)

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

EU-Regulations

No additional information available

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National regulations

N-Methyl-2-nitroaniline (612-28-2)

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 Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
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 RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated
	exposure

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.