

1-Methylpiperazine Safety Data Sheet 3H321L1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 11/03/2015

1.1. Identification			
Product form	: Substance		
Substance name	: 1-Methylpiperazine		
CAS No	: 109-01-3		
Product code	: 3H32-1-L1		
Formula	: C5H12N2		
Other means of identification	: MFCD00005966		
1.2. Relevant identified uses of the su	Ibstance 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 safe	ty 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.c			
1.4. Emergency telephone number	(0.11) 500 (050 (05 0		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identificatio	on		
2.1. Classification of the substance of			
Classification (GHS-US)			
Eye Dam. 1 H318 - Causes se	haled evere skin burns and eye damage erious eye damage æ respiratory irritation		
,			
Full text of H-phrases: see section 16			
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Full text of H-phrases: see section 16			
Full text of H-phrases: see section 16 2.2. Label elements	CHS02 CHS05 CHS06 CHS07		
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	: GHS02 GHS05 GHS06 GHS06 GHS06 GHS07 GHS07 GHS07		
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)			
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Danger H226 - Flammable liquid and vapor H312 - Harmful in contact with skin H314 - Causes severe skin burns and eye damage H331 - Toxic if inhaled 		

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2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type I-Methylpiperazine (Main constituent) I-Methylpiperazine (Main constituent) I-Methylpiperazine (Main constituent) I to the phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after inhalation First-aid measures after inhalation First-aid measures after eye contact Inmediately	
2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type : Mono-constituent Image: Substance type 1-Methylpiperazine (Mem constituent) (CAS No) 109-01-3 <= 100 Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation Skin Corr. 1A, H314 Eye Dam. 1, H318 Storm 16	
Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type Substance type Substance type Index identifier % Classification (GHS Name Classification (GHS Index identifier % Classification (GHS Name Classification (GHS Index identifier % Classification (GHS Index identifier % Classification (GHS Nume Classification (GHS Index identifier % Classification (GHS Miduation Classification (GHS Section of hist and measures Station Core: 14, H314 Epstem: 14, H314 E	
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1-Methylpiperazine (Main constituent) (CAS No) 109-01-3 Image: The Top State	
(Main constituent) Acute Tox. 4 (Demal), Acute Tox. 3 (Inhalation Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the 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, giv respiration. Get immediate medical advice/attention. First-aid measures after eye contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Ge medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. mouth out with water. Get immediate medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. mouth out with water. Get immediate medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see	-US)
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Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see	Rinse
Symptoms/injuries after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory to shortness of breath, headache, nausea.	act. Cough,
4.3. Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing appropriate for surrounding fire.	

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		: Risk of explosion if heated under confine containers. May form flammable/explosive	nent. Use water spray or fog for cooling exposed e vapor-air mixture.	l
Fire hazard : Thermal decomposition generates: Carbon oxides. Nitrogen oxides.				
5.2. Sp	pecial hazards arising from the sub	stance or mixture		

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5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: 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 m	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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify aut	norities if product enters sewers or public waters.
6.3. Methods and material for contai	nment 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	3

landle empty containers with care because residual vapors are flammable.
to not handle until all safety precautions have been read and understood. Ensure good entilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal rotective equipment. Avoid contact with skin and eyes. Keep away from ignition sources ncluding static discharges). Proper grounding procedures to avoid static electricity should be ollowed. Use only non-sparking tools.
landle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or moke when using this product. Always wash hands after handling the product.
y incompatibilities
comply with applicable regulations.
eep container closed when not in use. Keep away from ignition sources. Hygroscopic. Keep ontents under inert gas.
efer to Section 10 on Incompatible Materials.

SECTION 8: Ex	posure 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.

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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 chemical properties			
Physical state	: Liquid		

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Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: -5 °C
Freezing point	: No data available
Boiling point	: 137 - 139 °C
Flash point	: 42 °C (open cup)
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	: 0.903 g/ml (@ 25 °C)
Molecular mass	: 100.16 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	: 1.466 (@ 20 °C)

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10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
The prod	luct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additi	ional information available
10.4.	Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Acids. Acid chlorides. Acid anhydrides. Carbon dioxide. 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

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Acute toxicity	: Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled.	
1-Methylpiperazine (109-01-3)		
LD50 oral rat	2830 µl/kg	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
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	
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.	

SECTION 12: Ecological information			
12.1.	Toxicity		
1-Methylpiperazine (109-01-3)			
LC50 fish 1		2070 - 2550 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
12.2.	Persistence and degradability		
No addi	tional 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 addi	tional 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	tion
Department of Transportation (DOT)	

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)

- : UN2734 Amines, liquid, corrosive, flammable, n.o.s., 8, II
- : UN2734
- : Amines, liquid, corrosive, flammable, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- 8 Corrosive



- : II Medium Danger
 - : 202

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DOT Packaging Bulk (49 CFR 173.xxx)	: :	243
DOT Symbols	:	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)		IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 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	: :	52 - Stow "separated from" acids
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)		2734
Proper Shipping Name (IMDG)		AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.
Class (IMDG)		8 - Corrosive substances
Packing group (IMDG)	:	II - substances presenting medium danger
Air transport		
UN-No. (IATA)	: :	2734
Proper Shipping Name (IATA)	: .	Amines, liquid, corrosive, flammable, n.o.s.
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations
1-Methylpiperazine (109-01-3)
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.	Internat	ional	regul	ations
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CANADA

1-Methylpiperazine (109-01-3)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

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National regulations		
1-Methylpiperazine (109-01-3)		
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 the Korean ECL (Existing Chemicals List)		
Listed on NZIoC (New Zealand Inventory of Chemicals)		
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)		
Listed on INSQ (Mexican national Inventory of Chemical Substances)		

15.3. US State regulations		
1-Methylpiperazine (109-01-3)		
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

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-prilases.			
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4		
Eye Dam. 1	Serious eye damage/eye irritation Category 1		
Flam. Liq. 3	Flammable liquids Category 3		
Skin Corr. 1A	Skin corrosion/irritation Category 1A		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H226	Flammable liquid and vapor		
H312	Harmful in contact with skin		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H331	Toxic if inhaled		
H335	May cause respiratory irritation		
NFPA fire hazard	 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. 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		
lammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 		
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.