

Safety Data Sheet 2707514

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

Date of issue: 09/22/2017 Revision date: 11/05/2018 Version: 1.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Methoxybenzyl chloride
CAS No	: 824-94-2
Product code	: 2707-5-14
Formula	: C8H9CIO
Synonyms	: 4-(Chloromethyl)anisole
Other means of identification	: MFCD00000915
1.2. Relevant identified uses of the	he 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	safety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of An T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquest 1.4. Emergency telephone numb	llabs.com
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Classification (GHS-US)         Skin Corr. 1B       H314 - Causes severe         Eye Dam. 1       H318 - Causes serious         STOT SE 3       H335 - May cause resp         Full text of H-phrases: see section 16	eye damage
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	HS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> </ul>

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse

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#### 2.3. **Other hazards**

Other hazards not contri classification	ibuting to the	: Lachrymator.

#### Unknown acute toxicity (GHS US) 2.4.

Not applicable

### **SECTION 3: Composition/information on ingredients**

3.1. Substance

Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Methoxybenzyl chloride (Main constituent)		(CAS No) 824-94-2	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
ull text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
ïrst-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
irst-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		g. If not breathing, give artificial
irst-aid measures after skin contact		n with plenty of soap and water. Remove cal advice/attention.	contaminated c	othing and shoes. Get immediate
irst-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
irst-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
.2. Most important symptoms and effect	cts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,

#### Treat symptomatically.

5.1.       Extinguishing media         Suitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen chloride.         Explosion hazard       : Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed	SECTION 5: Firefighting measures	
5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen chloride.         Explosion hazard       : Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed	5.1. Extinguishing media	
Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen chloride.         Explosion hazard       : Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed	Suitable extinguishing media	
Explosion hazard : Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed	5.2. Special hazards arising from the sub	ostance or mixture
	Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride.
containers.	Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3. Advice for firefighters	5.3. Advice for firefighters	
Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	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".	Protection during firefighting	

SECTION 6: Accidental release measures		
5.1. 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.	

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6.1.2. For emergency responde	rs
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 precaution	ns
Avoid release to the environment. No	tify 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	: 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 section	ns
No additional information available	
SECTION 7: Handling and s	torage
7.1. Precautions for safe hand	dling
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 stora	ge, including 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 temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, 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. Information on basic	hysical and chemical properties	
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pН	: No data available	
Melting point	: -1 °C	
Freezing point	: No data available	
Boiling point	: 117 - 118 °C (@ 14 mm Hg)	
Flash point	: 109 °C	

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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	: 1.155 g/ml (@ 25 °C)
Molecular mass	: 156.61 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

: 1.548 (@ 20 °C)

#### 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. Stabilized product: Potassium carbonate.

#### 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 bases. 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	:	Not classified
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.

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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 addi	itional information available			
12.5.	Other adverse effects			
No additional information available				

SECTION 13: Disposal considerations			
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

#### UN-No.(DOT)

Packing group (DOT)

DOT Symbols

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

: 241

: 203

- : G Identifies PSN requiring a technical name
- : 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..... 178.275(d)(3)

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. 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): 154DOT Quantity Limitations Passenger aircraft/rail: 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger

, an anaport	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

# 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:

4-Methoxybenzyl chloride	CAS No 824-94-2	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

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

4-Methoxybenzyl chloride (824-94-2)	
Listed on the Japanese ISHL (Industrial Safety and Health Law) 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

Revision date

: 11/05/2018

#### Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

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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	<ul> <li>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)</li> </ul>	
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.