

Safety Data Sheet 26081X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/22/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Benzaldehyde dimethyl acetal
CAS No	: 1125-88-8
Product code	: 2608-1-X0
Formula	: C9H12O2
Synonyms	: (Dimethoxymethyl)benzene; alpha,alpha-Dimethoxytoluene
Other means of identification	: MFCD00008491
1.2. Relevant identified uses of the s	ubstance 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	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Acute Tox. 4 (Oral) H302 Harmful if swa Skin Irrit. 2 H315 Causes skin ir	Illowed ritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	Illowed ritation Is eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	Illowed ritation Is eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elements	Illowed ritation Is eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	Illowed ritation Is eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	Illowed ritation Is eye irritation
Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	allowed ritation us eye irritation spiratory irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	allowed ritation us eye irritation spiratory irritation : CHS07

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	P330 P332 P337 P362 P370 P403 P403 P405	 Specific treatment (see supplemental f Rinse mouth Rinse mouth<th>ical advice/atter dical advice/atte and wash it befo y chemical or alo Keep container Keep cool</th><th>ntion ntion ore reuse cohol-resistant foam to extinguish tightly closed</th>	ical advice/atter dical advice/atte and wash it befo y chemical or alo Keep container Keep cool	ntion ntion ore reuse cohol-resistant foam to extinguish tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	on on ir	aradianta		
3.1. Substance		Igredients		
Substance type	: Mon	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
Benzaldehyde dimethyl acetal (Main constituent)		(CAS No) 1125-88-8	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
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			madiaal advice i	mmediately (show the lobal
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get immediate medical advice/atto		g. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get imm	ediate medical a	advice/attention.
First-aid measures after eye contact	pres	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
First-aid measures after ingestion		IOT induce vomiting. Never give anything th out with water. Get immediate medical		
4.2. Most important symptoms and effe				
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
I.3. Indication of any immediate medic	al attentio	on and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su			·	
Fire hazard		mal decomposition generates: Carbon ox of explosion if heated under confinement		av or fog for cooling exposed
Explosion hazard		ainers. May form flammable/explosive va		ay or roy for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.

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SECTION 6: Accidental release meas				
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 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 authoritie	es if product enters sewers or public waters.			
6.3. Methods and material for containme	nt 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, includin	g any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. Keep contents under inert gas.			
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.

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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	: 196 °C		
Flash point	: 69 °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		
Specific gravity / density	: 1.014 g/ml (@ 25 °C)		
Molecular mass	: 152.19 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	: 1.493 (@ 20 °C)		
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	lorage 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. Strong oxidizing agents.			
10.6. Hazardous decomposition produc	te		
		should not be produced. Hazardous decompositio	on products in cos
fire, see Section 5.		anoulu not be produced. Hazaidous decompositio	in products in cas
SECTION 11: Toxicological informa	ation		
11.1. Information on toxicological effect	S		
A outo tovicity	· Oroly Usersteil if such		
Acute toxicity	: Oral: Harmful if swallowed.		
Benzaldehyde dimethyl acetal (1125-88-8)			
LD50 oral rat	1220 mg/kg		
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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 Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific larger organ loxicity (single exposure)	. May cause respiratory initiation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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 additional information available			
12.5. Other adverse effects			
No additional information evaluable			

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	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150

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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 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.
Other information	:	No supplementary information available.

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

15.1. US Federal regulations

Benzaldehyde dimethyl acetal (1125-88-8)

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

Benzaldehyde dimethyl acetal (1125-88-8)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

Benzaldehyde dimethyl acetal (1125-88-8) 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 Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) 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

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Full tex	t of H-phrases:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA f	nealth hazard ire hazard eactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 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 II	I Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamma	mmability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to h temperatures before ignition will occur. Includes liquids having a flash point at or a but below 200 F. (Classes II & IIIA)	
Physica	al	: 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.