

SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 23-Jul-2021

Revision Number 3

1. Identification

Product Name

p-Tolualdehyde

4-Methylbenzaldehyde

Cat No. : A11384

CAS No **Synonyms**

Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use.

104-87-0

Details of the supplier of the safety data sheet

Company

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eve Damage/Eve Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	ealogely e

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse **Eves** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eve irritation persists: Get medical advice/attention Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzaldehyde, 4-methyl-	104-87-0	>95

4. First-aid measures **General Advice** If symptoms persist, call a physician. Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

	medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	71 °C / 159.8 °F
Method -	No information available
Autoignition Temperature	435 °C / 815 °F
Explosion Limits	
Upper	5.6%
Lower	0.9%
Sonaitivity to Machanical Impag	at No information available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical Combustible material. Containers may explode when heated.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 2	Instability 0	Physical hazards N/A			
	6. Accidental re	elease measures				
Personal Precautio	Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.					
Environmental Pred	cautions Should not be released in	Should not be released into the environment.				
Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.UpRemove all sources of ignition.						
	7. Handling	and storage				
Handling		clothing. Avoid ingestion and	sure adequate ventilation. Do not inhalation. Keep away from open			

Storage	Keep away from heat, sparks and flame. Keep under nitrogen. Keep containers tightly closed in a dry, cool and well-ventilated place.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	Organic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-6 °C / 21.2 °F
Boiling Point/Range	204 - 205 °C / 399.2 - 401 °F @ 760 mmHg
Flash Point	71 °C / 159.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	5.6%
Lower	0.9%
Vapor Pressure	<1 mbar @ 20 °C
Vapor Density	4.1
Specific Gravity	1.015
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	435 °C / 815 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C8 H8 O
Molecular Weight	120.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions. Air sensitive.	
Conditions to Avoid	Exposure to air. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.	

Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Mobility

Product Information

Component Informa	ation					
	Component LD50 Oral LD50 Dermal LC50 Inhalation					
Benzaldehyde, 4-	methyl-	LD50 = 1600 mg/kg (F	LD50 = 1600 mg/kg (Rat) Not listed Not listed			
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		Irritating to eyes, re	Irritating to eyes, respiratory system and skin			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzaldehyde, 4-methyl-	104-87-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Not mutagenic in A	AMES Test		1	
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	ects	No information ava	No information available.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated ex		Respiratory systen None known	Respiratory system None known			
Aspiration hazard		No information ava	No information available			
Symptoms / effects delayed	s,both acute	and Symptoms of over	d Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting			
Endocrine Disrupto	docrine Disruptor Information No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.						
		12. Ecolo	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains					
Persistence and De	gradability	Insoluble in water	Insoluble in water May persist based on information available.			
Bioaccumulation/ A	ccumulation	nulation No information available.				

Is not likely mobile in the environment due its low water solubility.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information
DOT	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CRF §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.
UN-No Proper Shipping Name Packing Group <u>TDG</u> IATA IMDG/IMO	NA1993 Combustible liquid, n.o.s. III Not regulated Not regulated Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Benzaldehyde, 4-methyl-	104-87-0	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzaldehyde, 4-methyl-	104-87-0	Х	-	203-246-9	Х	Х	Х	Х	Х	KE-23445

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

other international regulat

Mexico - Grade

No information available

16. Other information					
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com				
Creation Date Revision Date Print Date Revision Summary	16-Nov-2010 23-Jul-2021 23-Jul-2021 SDS authoring systems update, replaces ChemGes SDS No. 104-87-0.				

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS