

SAFETY DATA SHEET

Revision Date 10-Feb-2015

Revision Number 1

Europe:001-703-527-3887

1. Identification				
Product Name	p-Tolualdehyde			
Cat No. :	AC139000000; AC139000025; AC139000050; AC139001000; AC139005000			
Synonyms	4-Methylbenzaldehyde			
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the safety	Ivised against No Information available of the supplier of the safety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 /		

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
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid Harmful if swallowed Causes skin irritation Causes serious eye irritation Harmful if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye 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 cool

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	97-99

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.		
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.		
Ingestion	Clean mouth with water. Get medical attention.		
Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting		

Notes to Physician	Treat symptomatically			
	5. Fire-fightir	ig measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. chemical foam.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	71 °C / 159.8 °F No information available			
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	435 °C / 815 °F 5.6% 0.9% 2t No information available No information available			
Specific Hazards Arising from the Combustible material.	Chemical			
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxide (CO ₂) 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 1	Instability 0	Physical hazards N/A	
6. Accidental release measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. See Section 12 for additional ecological information.			
ethods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Do not let this chemical enter the environment.				
Methods for Containment and Clea Up	n Soak up with inert absorbe sawdust). Keep in suitable	nt material (e.g. sand, silica gel		
	n Soak up with inert absorbe sawdust). Keep in suitable	nt material (e.g. sand, silica gel closed containers for disposal.		
	n Soak up with inert absorbe sawdust). Keep in suitable environment. 7. Handling a	nt material (e.g. sand, silica gel closed containers for disposal. and storage		
Up	n Soak up with inert absorbe sawdust). Keep in suitable environment. 7. Handling a Avoid contact with skin and Do not ingest. Keep in a dry, cool and we	nt material (e.g. sand, silica gel closed containers for disposal. and storage	Do not let this chemical enter the not breathe vapors or spray mist.	
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	EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light y
Odor	organic
Odor Threshold	No info
рН	No info
Melting Point/Range	-6 °C
Boiling Point/Range	204 -
Flash Point	71 °C
Evaporation Rate	No info
Flammability (solid.gas)	No info
Flammability or explosive limits	
Upper	5.6%
Lower	0.9%
Vapor Pressure	<1 mba
Vapor Density	4.1
Relative Density	1.015
Solubility	No info
Partition coefficient; n-octanol/water	No dat
Autoignition Temperature	435 °
Decomposition Temperature	No info
Viscosity	No info
Molecular Formula	C8 H8
Molecular Weight	120.15
5	

Light yellow organic No information available No information available -6 °C / 21.2 °F 204 - 205 °C / 399.2 - 401 °F @ 760 mmHg 71 °C / 159.8 °F No information available No information available 5.6% 0.9% <1 mbar @ 20 °C 4.1 1.015 No information available No data available 435 °C / 815 °F No information available No information available C8 H8 O 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.		
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents		
Hazardous Decomposition Product	position Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

No acute toxicity information is available for this product

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzaldehyde, 4-methyl-	1600 mg/kg (Rat)	2500 mg/kg (Rat)	Not listed
Taxiaalagiaally Synargiatia	No information available		

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed 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 AMES Test				
Reproductive Effec	ts	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expo STOT - repeated ex		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s,both acute and	and Symptoms of overexposure may be headache, dizziness, tiredness, nausea a		ea and vomiting		
Endocrine Disrupto	r Information	No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.			entry in RTECS for	

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.

Mobility

13. Disposal considerations

No information available.

 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	Not regulated			
DOT TDG IATA	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzaldehyde, 4-methyl-	Х	Х	-	203-246-9	-		Х	Х	Х	Х	Х
Legend:											

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable					
SARA 313	Not applicable					
SARA 311/312 Hazardous Categori Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	Yes No Yes					
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					
State Right-to-Know	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						
Mexico - Grade	No information available					
Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR						
WHMIS Hazard Class	B3 Combustible liquid D1B Toxic materials D2B Toxic materials					



16. Other information

Prepared By

Revision Date Print Date Revision Summary Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

10-Feb-2015

10-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS