

SAFETY DATA SHEET

Creation Date 16-Nov-2010	Revision Date 18-Jan-2018	Revision Number 4
	1. Identification	
Product Name	p-Tolualdehyde	
Cat No. :	AC139000000; AC139000025; AC139000050 AC139005000); AC139001000;
CAS-No Synonyms	104-87-0 4-Methylbenzaldehyde	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sa	fety data sheet	
<u>Company</u> Fisher Scientific	Acros Organics	

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 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 / **Europe**:001-703-527-3887

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 Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Warning

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

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 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

Compo	nent	CAS-No	Weight %				
Benzaldehyde	, 4-methyl-	104-87-0	>95				
	4.	First-aid measures					
General Advice	If symptoms	persist, call a physician.					
Conoral Autroo							
Eye Contact	Rinse immed	liately with plenty of water, also under th	ne eyelids, for at least 15 minutes. Get				

 Skin Contact
 Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Move 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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
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 Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	5.6% 0.9% t No information available 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	lease measures	
Personal Precautions		on. Use personal protective equi ry measures against static disch	
Environmental Precautions	Should not be released int		larges.
Methods for Containment and Clea Up	an Keep in suitable, closed of Remove all sources of ign		with inert absorbent material.
	7. Handling	and storage	
Handling	• •	equipment. Ensure adequate ve ingestion and inhalation. Keep a gnition.	u
Storage	Keep away from heat and closed in a dry, cool and v		nitrogen. Keep containers tightly
8. E	xposure controls	/ personal protection	on
Exposure Guidelines	-	tain any hazardous materials wir gion specific regulatory bodies.	th occupational exposure

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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	Long sleeved clothing.
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 Produc	ts 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

Product Information

Component Informa	ation									
Componer		LD50 Oral			LD50 Dermal		LC50 Inhalation			
Benzaldehyde, 4-	-methyl-	LD50 = 1600 mg/kg (Rat)	LD50 =	2500 mg/kg (Rat)	No	Not listed			
L Toxicologically Syn	eraistic	No information av	No information available							
Products	ioi giotio		anabio							
Delayed and immed	liate effects	as well as chronic effe	ects from s	short an	d long-term expo	sure				
Irritation		Irritating to eyes,	respiratory	system	and skin					
Sensitization		No information available								
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a c							
Component	CAS-N		NTE		ACGIH	OSHA	Mexico			
Benzaldehyde,	104-87-	-0 Not listed	Not lis	sted	Not listed	Not listed	Not listed			
4-methyl- Mutagenic Effects		Not mutagenic in	L AMES Test	t						
				-						
Reproductive Effec	ts	No information av	ailable.							
Developmental Effe	ects	No information av	ailable.							
Teratogenicity		No information av	ailable.							
	TOT - single exposureRespiratory systemTOT - repeated exposureNone known									
Aspiration hazard No information available										
Symptoms / effects delayed	s,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting						ea and vomiting			
Endocrine Disruptor Information No information available										
Other Adverse Effects The toxicological properties have not been fully investigated.										
		12. Ecol	ogical	infor	mation					
Ecotoxicity	aine									
Do not empty into dra	aii 15									
Persistence and De	gradability	Insoluble in water	May persis	st based	on information ava	ilable.				
Bioaccumulation/ A	ccumulatio	No information av	ailable.							
Mobility		Is not likely mobile	Is not likely mobile in the environment due its low water solubility.							
		13. Dispo	osal co	nside	erations					
Waste Disposal Me	thods	hazardous waste.	Chemical	waste g	ermine whether a c enerators must als s to ensure comple	o consult local, reg	gional, and			
		14. Trar	nsport	inforr	mation					
DOT		Not regulated								

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

All of the components in the product are on the following Inventory lists: X = listed

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 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	
Mexico - Grade	No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Nov-2010 18-Jan-2018 18-Jan-2018 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 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