

SAFETY DATA SHEET

Creation Date 20-Apr-2010

Revision Date 22-May-2017

Revision Number 2

1. Identification Product Name p-Dimethylaminobenzaldehyde Cat No. : D71-25; D71-100 Synonyms Ehrlich's Reagent; 4-Dimethylaminobenzaldehyde (Certified ACS) Recommended Use Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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)

Acute oral toxicity

Category 4

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth **Disposal** Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component		CAS-No	Weight %		
Benzaldehyde, 4-(dimethylamino)-		100-10-7	99		
	4. F	irst-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 plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.				
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.				
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically				
	5. Fire	e-fighting measures			
Suitable Extinguishing Media	Use water spra	ay, alcohol-resistant foam, dry chemi	cal or carbon dioxide.		
Unsuitable Extinguishing Media	No information available				
Flash Point	164 °C / 327.2 °F				
Method -	No information available				
Autoignition Temperature	445 °C / 833 °F				
Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge					

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx) 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.

Upper

Lower

Vapor Pressure

Evaporation Rate

Flammability (solid,gas) Flammability or explosive limits

NFPA_ Health 2	Flammability 1	Instability 1	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions		quipment. Ensure adequate ven	tilation. Avoid dust formation.				
Environmental Precautions		es and clothing. o the environment. See Section nto surface water or sanitary se					
Methods for Containment and C Up	lean Sweep up or vacuum up s formation.	pillage and collect in suitable co	ontainer for disposal. Avoid dust				
	7. Handling	and storage					
Handling		equipment. Ensure adequate ve ntact with skin, eyes and clothir	ntilation. Avoid dust formation. Do				
Storage	Keep containers tightly clo	sed in a dry, cool and well-vent	ilated place. Protect from light.				
8.	Exposure controls	/ personal protection	on				
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th occupational exposure				
Engineering Measures		on, especially in confined areas. ose to the workstation location.	Ensure that eyewash stations				
Personal Protective Equipment							
Eye/face Protection		e eyeglasses or chemical safet ection regulations in 29 CFR 19					
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prever	t skin exposure.				
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR 2 HA or European Standard EN 2 led or if irritation or other sympt					
Hygiene Measures	Handle in accordance with	good industrial hygiene and sa	fety practice.				
	9. Physical and ch	emical properties					
Physical State		Powder Solid					
Appearance Odor		Light yellow Strong					
Odor Odor Threshold		No information available					
pH		No information available					
Melting Point/Range	70 - 75 °C / 158 - 167 °F						
Boiling Point/Range	176 - 177 °C / 348.8 - 350.6 °F @ 17 mmHg						
Flash Point		164 °C / 327.2 °F					
Evanoration Data	Not applicable						

Not applicable No information available

No information available

No data available

No data available

Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight

Not applicable No information available 0.3 g/l (20°C) No data available 445 °C / 833 °F No information available Not applicable C9 H11 N O 149.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions. Light sensitive.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to light.		
Incompatible Materials	Strong oxidizing agents, Strong bases		
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Informa Toxicologically Syn Products <u>Delayed and immed</u>	tion					
Irritation		No information available				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinoge				as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzaldehyde, 4-(dimethylamino)-	100-10-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable	•		
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposision STOT - repeated exposision of the second strength of the second st		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	No information available				

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzaldehyde, 4-(dimethylamino)-	Not listed	LC50: = 45.7 mg/L, 96h flow-through (Pimephales promelas)	Not listed	Not listed
Persistence and Degradal	bility May persist b	ased on information availa	able.	

Persistence and Degradability

Bioaccumulation/Accumulation

No information available.

Mobility

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

Component	log Pow
Benzaldehyde, 4-(dimethylamino)-	1.81

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	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,	Х	Х	-	202-819-0	-		Х	Х	Х	Х	Х
4-(dimethylamino)-											

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 Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	azard	Yes No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and Healt Not applicable	h Administration	
CERCLA Not applicable		
California Proposition 65	This product does not co	ontain 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

Slight risk, Grade 1

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	20-Apr-2010 22-May-2017 22-May-2017 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