

SAFETY DATA SHEET

Creation Date 20-Apr-2010

Revision Date 24-Apr-2024

Revision Number 6

1. Identification

4-Dimethylaminobenzaldehyde

Product Name

AC423630000; AC423630025; AC423630250; AC423631000; AC423635000

CAS No Synonyms

Cat No. :

100-10-7 Ehrlich`s Reagent

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company 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: 001-800-227-6701 / **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 Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements Hazards not otherwise classified (HNOC) None identified

Component Benzaldehyde, 4-(dimethylamino)-		CAS No	Weight %	
		100-10-7	<=100	
	4. Fir	st-aid measures		
General Advice	If symptoms pers	ist, 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. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			

3. Composition/Information on Ingredients

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
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	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the C	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.

NFPA			
Health	Flammability	Instability	Physical hazards
2	1	1	N/A

	6. Accidental release measures
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods for Containment and Cle Up	an Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.
	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Incompatible Materials. Strong oxidizing agents. Strong bases.
8. E	Exposure 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	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.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Powder Solid	
Appearance	Light yellow	
Odor	Strong	
Odor Threshold	No information available	
pH	Not applicable	
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	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	

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

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

Componer	nt Inform	ation

componen	Component			LD50 Dermal	LC50	nhalation
Benzaldehyde, 4-(dime	ethylamino)-	LD50 >2000 mg/kg (Rat) OB	ECD TG	Not listed	No	t listed
		423				
		LD50 = 800 mg/kg (Mou	use)			
Foxicologically Syn	ergistic	No information ava	ilable			
Products						
Delayed and immed	iate effects	as well as chronic effe	cts from short an	d long-term expo	sure	
-				· · ·		
rritation		No information ava	ilable			
Sensitization	No information available					
						
Carcinodenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinoder
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinoger
Carcinogenicity	CAS N		dicates whether ea	ach agency has list ACGIH	ed any ingredient a	as a carcinoger Mexico
	CAS N 100-10-	o IARC		<u> </u>		
Component		o IARC	NTP	ACGIH	OSHA	Mexico
Component Benzaldehyde,		o IARC	NTP Not listed	ACGIH	OSHA	Mexico
Component Benzaldehyde, 4-(dimethylamino)-		o IARC -7 Not listed	NTP Not listed	ACGIH	OSHA	Mexico
Component Benzaldehyde, 4-(dimethylamino)- Mutagenic Effects	100-10-	o IARC -7 Not listed	NTP Not listed ilable	ACGIH	OSHA	Mexico
Component Benzaldehyde, 4-(dimethylamino)-	100-10-	o IARC -7 Not listed No information ava	NTP Not listed ilable	ACGIH	OSHA	Mexico
Component Benzaldehyde, 4-(dimethylamino)- Autagenic Effects	100-10-	o IARC -7 Not listed No information ava	NTP Not listed ilable ilable.	ACGIH	OSHA	Mexico

Teratogenicity No information available.

STOT - single exposure	None known
STOT - repeated exposure	None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available delayed

Endocrine Disruptor Information No in

Other Adverse Effects

tion No information available

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzaldehyde,	EC50 = 72.7 mg/l (72h)	LC50: = 45.7 mg/L, 96h	Not listed	EC50 = 1.58 mg/l (Daphnia)
4-(dimethylamino)-	Desmodesmus subspicatus OECD 201	flow-through (Pimephales promelas)		48h (OCED 202)

ersistence is	unlikely
e	ersistence is

Bioaccumulation/ Accumulation No information available.

Mobility

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

Component	log Pow
Benzaldehyde, 4-(dimethylamino)-	1.8

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	Not regulated
IATA	Not regulated
IMDG/IMO	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-(dimethylamino)-	100-10-7	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzaldehyde, 4-(dimethylamino)-	100-10-7	Х	-	202-819-0	Х	Х	Х	Х	Х	KE-11127

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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 Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Not applicable

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benza	Idehyde, 4-(dimethylamino)-	100-10-7	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzaldehyde, 4-(dimethylamino)-	100-10-7	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzaldehyde, 4-(dimethylamino)-	100-10-7	Not applicable	Not applicable	Not applicable	Not applicable

	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 24-Apr-2024 24-Apr-2024 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