

SAFETY DATA SHEET

Classified as hazardous according to criteria of EPA New Zealand

Section 1 - Identification

Product Name p-Anisidine

Synonyms 4-Methoxyaniline; 4-Methoxybenzeneamine; 4-Aminoanisole

Product Code MO08495ZZ; MO08495FL; MO08495R3

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Recommended Use Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

6.1B - Substances that are acutely toxic (Oral)

6.1A - Substances that are acutely toxic (Dermal)

6.1B - Substances that are acutely toxic (Inhalation)

6.7A - Substances that are known or presumed human carcinogens

6.9B - Substances that are harmful to human target organs or systems

9.1A - Substances that are very ecotoxic in the aquatic environment

9.3B - Substances that are ecotoxic to terrestrial vertebrates

Classified as hazardous according to criteria of EPA New Zealand

GHS Classification

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity - Dusts and Mists

Category 1

Carcinogenicity

Category 2

Carcinogenicity

Category 1

Specific target organ toxicity - (repeated exposure)

Category 2

Category 2

Environmental hazards

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

MAYMO08495 Version 1 11-Aug-2020 Page 1/9

Label Elements



Signal Word

Danger

Hazard Statements

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H432 - Toxic to terrestrial vertebrates

Precautionary Statements

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P262 - Do not get in eyes, on skin, or on clothing

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P281 - Use personal protective equipment as required

P284 - Wear respiratory protection

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P330 - Rinse mouth

P361 - Remove/Take off immediately all contaminated clothing

P363 - Wash contaminated clothing before reuse

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

No information available

Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
o-Anisidine	90-04-0	0.1-0.7
p-Anisidine	104-94-9	>98.5

Section 4 - First Aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. 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. Immediate medical attention is required.

MAYMO08495 Version 1 11-Aug-2020 Page 2/9

SAFETY DATA SHEET

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

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

Immediate medical attention is required.

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx).

Decomposition Temperature

> 300°C

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

MAYMO08495 Version 1 11-Aug-2020 Page 3 / 9

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	New Zealand WEL			
o-Anisidine	TWA: 0.1 ppm			
	TWA: 0.50 mg/m ³			
	Skin			
p-Anisidine	TWA: 0.1 ppm			
	TWA: 0.50 mg/m ³			
	Skin			

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eve protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Nitrile rubber, Neoprene,	See manufacturers	-	AS/NZS 2161	(minimum requirement)
Natural rubber, PVC.	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Particulates filter conforming to EN 143 (or AUS/NZ equivalent)

Recommended half mask:- Particle filtering: EN149:2001 (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

MAYMO08495 Version 1 11-Aug-2020 Page 4/9

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Grey, Brown Physical State Solid

Odor No information available

Odor Threshold No data available

pH 8.8 53 g/L aq.sol

Melting Point/Range 56 - 59 °C / 132.8 - 138.2 °F

Softening Point No data available

Boiling Point/Range 240 - 243 °C / 464 - 469.4 °F

Flash Point 122 °C / 251.6 °F Method - No information available

Evaporation Rate Not applicable Solid

Flammability (solid,gas) No information available

Explosion Limits No data available

Vapor Pressure 0.02 hPa @ 20 °C

Vapor Density Not applicable Solid

Specific Gravity / Density 1.060

Bulk Density No data available

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog Powo-Anisidine1.18p-Anisidine0.95

Autoignition Temperature 450 °C / 842 °F

Decomposition Temperature > 300°C

Viscosity Not applicable Solid

Explosive Properties No information available Oxidizing Properties No information available

Other information

Molecular Formula C7 H9 N O
Molecular Weight 123.15

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Light sensitive. Air sensitive.

Conditions to Avoid Incompatible products, Excess heat, Avoid dust formation, Exposure to air, Exposure to

light.

Incompatible Materials Strong oxidizing agents, Acids, Acid chlorides, Acid anhydrides, Chloroformates.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

MAYMO08495 Version 1 11-Aug-2020 Page 5 / 9

Information on Toxicological Effects

Product Information

(a) acute toxicity;

OralCategory 2DermalCategory 1InhalationCategory 2

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
o-Anisidine	LD50 = 1890 mg/kg (Rat) LD50 = 1150 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	LC50 > 3800 mg/m³ (Rat) 4 h LC50 > 3.87 mg/L (Rat) 4 h		
p-Anisidine	LD50 = 1400 mg/kg (Rat) LD50 = 1320 mg/kg (Rat)	LD50 = 3200 mg/kg (Rat)			

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

Sensitization No information available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; Category 1B

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	Australia	New Zealand	New South Wales	Western Australia	IARC	EU	UK	Germany
o-Anisidine		Suspected			Group 2B	Carc Cat. 1B		Cat. 2
		carcinogen						
p-Anisidine		Suspected					_	Cat. 3B
		carcinogen						

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; Category 2

Target Organs None known.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available delayed

Section 12 - Ecological Information

Ecotoxicity effects Very toxic to aquatic organisms. The product contains following substances which are

hazardous for the environment.

MAYMO08495 Version 1 11-Aug-2020 Page 6/9

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
o-Anisidine	LC50: > 100 mg/L, 96h static (Brachydanio rerio)			EC50 = 1500 mg/L 24 h
p-Anisidine		EC50: = 0.18 mg/L, 48h (Daphnia magna)		EC50 = 14.5 mg/L 30 min

Persistence and Degradability

Persistence Soluble in water, Persistence is unlikely, based on information available.

Degradation in sewage treatment

plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

Bioconcentration factor (BCF) 54

	 -	
Component	log Pow	Bioconcentration factor (BCF)
o-Anisidine	1.18	No data available
p-Anisidine	0.95	No data available

Mobility

The product is water soluble, and may spread in water systems. . Will likely be mobile in

the environment due to its water solubility. Highly mobile in soils

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations . Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not

empty into drains. Do not let this chemical enter the environment.

Section 14 - Transport Information

IMDG/IMO

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s.

Hazard Class 6.1 **Packing Group** Ш

NZS 5433:2012

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s.

Hazard Class 6.1 **Packing Group** Ш

MAYMO08495 Version 1 11-Aug-2020 Page 7/9 IATA

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s.

Hazard Class 6.1 Packing Group III

Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

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

Component	HSNO Approval Number
o-Anisidine	HSR004606
p-Anisidine	HSR004619

International Inventories X = listed

Component	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
o-Anisidine	Х	Х	201-963-	-	Х	Х	-	Χ	Х	Х	KE-2321
			1								1
p-Anisidine	Х	Х	203-254-	-	Х	Х	-	Х	Х	Х	KE-2321
			2								2

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when **requirements** they apply.

Component	New Zealand		
o-Anisidine	Suspected carcinogen		
p-Anisidine	Suspected carcinogen		

Section 16 - Other Information

This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

ADG Australian Code for the Transport of Dangerous Goods by Road and Rail

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% **ATE** - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

54

PBT - Persistent, Bioaccumulative, Toxic

MAYMO08495 Version 1 11-Aug-2020 Page 8/9

VOC (volatile organic compound)

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical incident response training.

Revision Date 11-Aug-2020 Revision Summary Initial Release

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 Safety Data Sheet

MAYMO08495 Version 1 11-Aug-2020 Page 9/9