

Page 1/8 Revision Date 22-Mar-2025 Version 4

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THECOMPANY/UNDERTAKING

Product Identifier

Perihalan Produk: 3,4-Dimethylbenzaldehyde
Product Description: 3,4-Dimethylbenzaldehyde

**Cat No. :** 346060000; 346060050; 346060250

CAS No 5973-71-7
Molecular Formula C9 H10 O

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals. Uses advised against No Information available

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# **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture		
<u>Label Elements</u>		

**Hazard Statements** 

#### Other Hazards

This product does not contain any known or suspected endocrine disruptors

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

ACR34606

#### 3,4-Dimethylbenzaldehyde

ComponentCAS NoWeight %Benzaldehyde, 3,4-dimethyl-5973-71-7<=100</td>

# **SECTION 4: FIRST AID MEASURES**

Description of first aid measures

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 soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

**Inhalation** Remove from exposure, lie down. Remove to fresh air.

Self-Protection of the First Aider No special precautions required.

Most important symptoms and effects, both acute and delayed

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Symptoms may be delayed.

# **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media

**Suitable Extinguishing Media** 

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion Products** 

Carbon monoxide (CO), Carbon dioxide (CO2).

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation.

**Environmental precautions** 

See Section 12 for additional Ecological Information.

ACR34606

Revision Date 22-Mar-2025

Revision Date 22-Mar-2025

## Methods and Material for Containment and Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

## **Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.

## Conditions for Safe Storage, Including any Incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

#### Specific End Uses

Use in laboratories.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters** 

**Exposure Controls Engineering Measures** 

None under normal use conditions.

Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles)

**Hand Protection** Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

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.

**Respiratory Protection** No protective equipment is needed under normal use conditions

**Recommended Filter type:** Particle filter

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

No information available **Environmental exposure controls** 

ACR34606

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Liquid

(Air = 1.0)

Liquid

Information on basic physical and chemical properties

Appearance Light yellow Physical State Liquid

Odor No information available
Odor Threshold No data available
pH No information available

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/Range226 °C / 438.8 °F

Flash Point No information available Method - No information available

**Evaporation Rate**Flammability (solid,gas)
No data available
Not applicable

Explosion Limits No data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity / Density 1.012

Bulk Density Not applicable

Water Solubility
Solubility in other solvents
No information available
No information available

Partition Coefficient (n-octanol/water)

**Component log Pow** Benzaldehyde, 3,4-dimethyl- 2.45

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

**Explosive Properties**No information available **Oxidizing Properties**No information available

Molecular FormulaC9 H10 OMolecular Weight134.18

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

None known, based on information available.

**Chemical Stability** 

Air sensitive.

ACR34606

Revision Date 22-Mar-2025

#### 3,4-Dimethylbenzaldehyde

Revision Date 22-Mar-2025

Possibility of Hazardous Reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNo information available.

Conditions to Avoid

Exposure to air. Incompatible products.

Incompatible Materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

Carbon monoxide (CO). Carbon dioxide (CO2).

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

(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

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

3,4-Dimethylbenzaldehyde

(j) aspiration hazard; No data available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** 

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Revision Date 22-Mar-2025

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## **SECTION 12: ECOLOGICAL INFORMATION**

Contains no substances known to be hazardous to the environment or that are not **Ecotoxicity effects** 

degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Benzaldehyde, 3,4-dimethyl-	LC50: = 7.2 mg/L, 96h			
	semi-static			
	(Oncorhynchus mykiss)			

No information available Persistence and degradability

**Bioaccumulative potential** No information available

Component	log Pow	Bioconcentration factor (BCF)
Benzaldehyde, 3,4-dimethyl-	2.45	No data available

No information available. Mobility in soil

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

No information available Other adverse effects

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues/Unused

**Products** 

Dispose of in accordance with local regulations

Empty containers should be taken to an approved waste handling site for recycling or **Contaminated Packaging** 

disposal

# **SECTION 14: TRANSPORT INFORMATION**

Not regulated IMDG/IMO

**Road and Rail Transport** Not regulated

3,4-Dimethylbenzaldehyde

IATA Not regulated

**Special Precautions for User** No special precautions required

### SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

Component	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	IECSC	AICS	KECL
Benzaldehyde, 3,4-dimethyl-	227-770-2	Х	-	-	Х	X	Х	-	KE-11206

**National Regulations** 

**Persistent Organic Pollutant Ozone Depletion Potential** 

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

Substances List

# **SECTION 16: OTHER INFORMATION**

#### Legend

CAS - Chemical Abstracts Service

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

Revision Date 22-Mar-2025

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

POW - Partition coefficient Octanol:Water

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

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

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

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

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

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

**Revision Date** 22-Mar-2025 Not applicable. **Revision Summary** 

Revision Date 22-Mar-2025

In accordance with local and national regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

### **Disclaimer**

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**End of Safety Data Sheet** 

ACR34606