

# **SAFETY DATA SHEET**

Revision Date 29-Mar-2024 Revision Number 6

## 1. Identification

Product Name 2,4-Dimethylbenzaldehyde

Cat No. : A14655

**CAS No** 15764-16-6

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

## Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill. MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

#### **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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

## Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Combustible liquid
Causes skin irritation
Causes serious eye damage

May cause respiratory irritation



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling 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 Immediately call a POISON CENTER or doctor/physician

#### 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

Component	CAS No	Weight %
Benzaldehyde, 2,4-dimethyl-	15764-16-6	99

#### 4. First-aid measures

**General Advice** If symptoms persist, 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.

## 2,4-Dimethylbenzaldehyde

Most important symptoms and

effects

**Notes to Physician** 

None reasonably foreseeable. Causes severe eve damage. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. Water mist may

be used to cool closed containers.

**Unsuitable Extinguishing Media** No information available

**Flash Point** 88 °C / 190.4 °F

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

No data available Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Combustible material. Containers may explode when heated.

#### **Hazardous Combustion Products**

Carbon oxides.

#### **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	2	0	N/A

#### Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all **Personal Precautions** 

sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up

Remove all sources of ignition.

## Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not Handling

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open

flames, hot surfaces and sources of ignition.

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

from heat, sparks and flame. Keep containers tightly closed in a dry, cool and

well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

None under normal use conditions. Ensure adequate ventilation, especially in confined **Engineering Measures** 

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.

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

**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.

## Physical and chemical properties

**Physical State** Liquid **Appearance** Colorless Odor Odorless

**Odor Threshold** No information available

Not applicable рH

Melting Point/Range -9 °C / 15.8 °F

**Boiling Point/Range** 102.4 - 103 °C / 216.3 - 217.4 °F @ 14 mmHg

Flash Point 88 °C / 190.4 °F **Evaporation Rate** No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available No data available Lower **Vapor Pressure** No information available No information available **Vapor Density** 0.960

**Specific Gravity** 

Solubility No information available Partition coefficient; n-octanol/water No data available

No information available **Autoignition Temperature Decomposition Temperature** No information available **Viscosity** No information available

Molecular Formula C9 H10 O 134.18 **Molecular Weight** 

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Air sensitive.

**Conditions to Avoid** Exposure to air. Incompatible products. Keep away from open flames, hot surfaces and

sources of ignition.

Strong oxidizing agents, Strong bases **Incompatible Materials** 

Hazardous Decomposition Products Carbon oxides

No information available. **Hazardous Polymerization** 

#### 2,4-Dimethylbenzaldehyde

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

No acute toxicity information is available for this product

**Component Information Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzaldehyde,	15764-16-6	Not listed				
2.4-dimethyl-						

**Mutagenic Effects** No information available

No information available. **Reproductive Effects** 

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure Respiratory system

STOT - repeated exposure None known

**Aspiration hazard** No information available

delayed

**Endocrine Disruptor Information** No information available

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

## 12. Ecological information

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

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

## Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

> hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

COMBUSTIBLE LIQUID. NOT REGULATED FOR TRANSPORT IN THIS QUANTITY DOT

## 2,4-Dimethylbenzaldehyde

According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993,

Combustible Liquid, NOS if it is shipped in bulk.

**UN-No** 

**Proper Shipping Name** Combustible liquid, n.o.s.

**Packing Group** 

Not regulated TDG 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, 2,4-dimethyl-	15764-16-6	=	-	-

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

Not applicable

Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

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, 2,4-dimethyl-	15764-16-6	Χ	-	239-856-7	Χ	Χ	Χ	Χ	1	KE-11205

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): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

**Other International Regulations** 

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
		Subject to Authorization	on Certain Dangerous	Candidate List of
			Substances	Substances of Very High
				Concern (SVHC)
Benzaldehyde, 2,4-dimethyl-	15764-16-6	-	-	-

#### 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, 2,4-dimethyl-	15764-16-6	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, 2,4-dimethyl-	15764-16-6	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

Revision Date 29-Mar-2024 Print Date 29-Mar-2024

**Revision Summary** New emergency telephone response service provider.

Revision Date 29-Mar-2024

#### **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**