

Safety Data Sheet per OSHA HazCom 2012

Reviewed 01/09/03/2003
1 Identification
Product identifier
Product name: 2,4-Dimethylbenzaldehyde
Stock number: A14655 CAS Number: 15764-16-6
EC number: 239-856-7
<i>Relevant identified uses of the substance or mixture and uses advised against.</i> <i>Identified use:</i> SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com Information Department: Health, Safety and Environmental Department Emergency: telephone number:
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
H227 Combustible liquid. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms Not applicable Signal word Warning Hazard statements
H227 Combustible liquid. Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B3 - Combustible liquid
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 PRE I Flammability = 2 REACTIVITI Physical Hazard = 1
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
15764-16-6 2.4-Dimethylbenzaldehyde
Identification number(s): EC number: 239-856-7
4 First-aid measures
Description of first aid measures After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
After skin contact Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment. Information for doctor
Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.
5 Fire-fighting measures Extinguishing media
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

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Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	(Contd. of page 1)		
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 7 for information on personal protection equipment. See Section 13 for disposal information.			
Conditions for safe storage, including Storage	explosions and fires: Keep ignition sources away. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: nditions:		
Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical tume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protective gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Protective work clothing.			
9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor threshold:			
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-9 °C (16 °F) 215-216 °C (419-421 °F) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	88 °C (190 °F) Not determined Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Product does not present an explosion hazard. Not determined 1 hPa (1 mm Hg) 1.02 g/cm ³ (8.512 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. (Contd. on page 3) USA		
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Product name: 2,4-Dimethylbenzaldehy	de	
		(Contd. of page 2)
Partition coefficient (n-octanol/water): No Viscosity: dynamic: No kinematic: No	miscible or difficult to mix determined. determined. determined. further relevant information available.	(contai of page _
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommene Thermal decomposition / conditions to be Possibility of hazardous reactions No dan Conditions to avoid No further relevant info Incompatible materials: Oxidizing agents Air Hazardous decomposition products: Carb	avoided: Decomposition will not occur if used and stored according to specifications. gerous reactions known rmation available.	
Reproductive toxicity: No effects known. Specific target organ system toxicity - rep Specific target organ system toxicity - sin Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects kn	ation tion arcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or AC eated exposure: No effects known. gle exposure: No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information Persistence and degradability No further relevant Bioaccumulative potential No further relevant Mobility in soil No further relevant information Additional ecological information: General notes: Do not allow material to be released to the e Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant in	elevant information available. ant information available. on available. nvironment without proper governmental permits.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or na Uncleaned packagings: Recommendation: Disposal must be made		
14 Transport information Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II or Transport/Additional information:	MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information: DOT	Not dangerous according to the above specifications.	
Marine Pollutant (DOT):	No	
15 Regulatory information Safety, health and environmental regulati GHS label elements The product is classifie Hazard pictograms Not applicable Signal word Warning Hazard statements	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)	

Hazard statements H227 Combustible liquid.

(Contd. on page 4)

Product name: 2,4-Dimethylbenzaldehyde

(Contd. of page 3) P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. **National regulations** Precautionary statements All components of this product are listed on the Canadian Domestic Substances List (DSL). This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. 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Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acconyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) IGAO: Thermational Civil Aviation Organization IGAO: Thermational Civil Aviation Organization IGAO: Thermational Air Transport also marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) IGAO: Thermational Maritime Code IGAO: Thermational Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Cathal dose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conternence of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MP: National Toxicology Program (USA) MP: National Toxicology Program (USA) MP: Nenoial Toxicology Program (USA)

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