

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier

Product identifier
Product name: 4-(tert-Butoxy)benzaldehyde
Stock number: L13436 CAS Number:
57699-45-3
EC number: 206-909-5
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet
Manufacturer/Supplier: Alfa Aesar
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
Email: tech@alfa.com www.alfa.com
Information Department: Health, Safety and Environmental Department
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)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation. 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
GHS07
Signal word Warning Hazard statements
H315 Causes skin irritation. H319 Causes serious eye irritation.
H319 Gause serious eye intation. H335 May cause respiratory irritation. Precautionary statements
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/sprav.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P340 IF INHALED; Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification
D2B - Toxic material causing other toxic effects
(T)
Classification system HMIS ratings (scale 0-4)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
FIRE I Flammàbility = 1 (REACTIVITY 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: 57699-45-3 4-(tert-Butoxy)benzaldehyde
Identification number(s): EC number: 206-909-5
EC number: 200-909-5
4 First-aid measures
Description of first aid measures After inhalation
After Initialition Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
Seek îmmediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. (Contd. on page 2)
USAUSA

Product name: 4-(tert-Butoxy)benzaldehyde

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.	(Contd. of page 1)	
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. 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 Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
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). Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.		
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.		
Become end use(s) no nature rotochination dividualize. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume 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 and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.		
9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Colorless		
Odor: Not determined Odor threshold: Not determined. pH-value: Not determined. Change in condition Melting point/Melting range: Not determined Boiling point/Melting range: Not determined Boiling point/Boiling range: Not determined Bo		
Sublimation temperature / start: Not determined Of Flash point: Not determined	(Contd. on page 3) USA	

Product name: 4-(tert-Butoxy)benzaldehyde

roduct name: 4-(tert-Butoxy)benza	แนะกรุนะ			
		(Contd. of page 2		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature:	Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower:	Not determined			
Upper:	Not determined			
Vapor pressure: Density:	Not determined Not determined			
Relative density	Not determined.			
Vapor density	Not determined.			
Evaporation rate Solubility in / Miscibility with	Not determined.			
Water:	Not miscible or difficult to mix			
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.			
dynamic:	Not determined.			
kinematic: Other information	Not determined. No further relevant information available.			
0 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recom	mended storage conditions.			
Possibility of hazardous reactions No	to be avoided: Decomposition will not occur if used and stored according to specifications.			
Conditions to avoid No further relevan	it information available.			
Incompatible materials: Oxidizing ager Hazardous decomposition products:	nts Carbon monovide and carbon diovide			
nazardous decomposition products.				
1 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	classification. No data			
Skin irritation or corrosion: Causes sh				
Eye irritation or corrosion: Causes se	prious eye irritation.			
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	own.			
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the FPA, IARC, NTP, OSHA or ACGIH,			
Reproductive toxicity: No effects know	NN.			
Specific target organ system toxicity	- repeated exposure: No effects known.			
Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.			
Subacute to chronic toxicity: No effect	cts known.			
	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
2 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant inf	formation available.			
Persistence and degradability No furth Bioaccumulative potential No further r	ner relevant information available. relevant information available.			
Mobility in soil No further relevant infor	rmation available.			
Additional ecological information: General notes:				
Do not allow material to be released to t	the environment without proper governmental permits.			
Avoid transfer into the environment.				
Results of PBT and vPvB assessment PBT: Not applicable.				
vPvB: Not applicable.				
Other adverse effects No further releva	ant information available.			
3 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local of	or national regulations to ensure proper disposal.			
Uncleaned packagings: Recommendation: Disposal must be m	nade according to official regulations.			
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4 Transport information Not a hazardous material for transportat	tion			
UN-Number				
DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es)	NOTIC			
DOT, ADR, IMDG, IATA				
Class	None			
Packing group DOT, IMDG, IATA	None			
	None			
	Not applicable			
Environmental hazards:	Not applicable.			
Environmental hazards: Special precautions for user	Not applicable.			
Environmental hazards: Special precautions for user		(Contd. on page 4		

Page 4/4 Printing date 11/24/2015 Reviewed on 03/16/2007

Product name: 4-(tert-Butoxy)benzaldehyde	
	(Contd. of page 3)
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
15 Regulatory information Safety, health and environmental regulations/legisl GHS label elements The product is classified and labe Hazard pictograms GHS07	<i>lation specific for the substance or mixture</i> eled in accordance with 29 CFR 1910 (OSHA HCS)
 P305+P351+P338 IF IN EYES: Rinse cautiously with v P304+P340 IF INHALED: Remove person to fre P405 Store locked up. P501 Dispose of contents/container in ac National regulations This product is not listed in the U.S. Environmental Proto research and development only. This product must In product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings, California Proposition 65 Prop 65 - Chemicals known to cause cancer Substate Prop 65 - Developmental toxicity, female Substance is not fis Information about limitation of use: For use only by Other regulations, limitations and prohibitive regul 	 clothing/eye protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. esh air and keep comfortable for breathing. ccordance with local/regional/national/international regulations. otection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This in formulations for commercial purposes. c) Substance is not listed. ance is not listed. is ted. is ted. is ted. g is not listed. g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the uthorisation for use) Substance is not listed.
information to ensure proper use and protect the healt	lement to other information gathered by them, and should make independent judgement of suitability of this h and safety of employees. This information is furnished without warranty, and any use of the product not in 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 acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substan CAS: Chemical Abstracts Service (division of the American Chemical So HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (US OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	nces ociety)