

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier	
Product name: 2,4,6-Trimethylbenzyl chloride	
Stock number: L00423 CAS Number: 1585-16-6	
EC number: 216-440-3	
<i>2</i> :10-440-5 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 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: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24	¹ at (866) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
\checkmark	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified Lachrymator	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS05	
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements 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. C P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material	Sontinue rinsing.
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
Hazardous Materials Identification System)	
PRE Flammability = 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: 1585-16-6 2,4,6-Trimethylbenzyl chloride	
1585-16-6 2,4,6-Trimethylbenzyl chloride Identification number(s): EC number: 216-440-3	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product. 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.	Contra
	(Contd. on page 2) USA

Information for doctor

Product name: 2,4,6-Trimethylbenzyl chloride

Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. Page 2/4 Printing date 11/23/2015 Reviewed on 02/22/2010

(Contd. of page 1)

5 Fire-fighting measures Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:				
Advice for firefighters Protective equipment: Wear self-contained respirator.	owing can be released.			
Wear fully protective impervious suit.				
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprot Ensure adequate ventilation	ected persons away.			
Methods and material for containment Use neutralizing agent. Dispose of contaminated material as was				
Ensure adequate ventilation. Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe har	special measures required. Indling			
See Section 8 for information on persona See Section 13 for disposal information.	i protection equipment.			
7 Handling and storage Handling				
Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace				
Conditions for safe storage, including	explosions and fires: No information known. any incompatibilities			
Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Store away from oxidizing agents. Store away from strong bases.				
Protect from heat. Further information about storage con Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant.				
Control parameters Components with limit values that req Additional information: No data	uire monitoring at the workplace: Not required.			
Exposure controls Personal protective equipment General protective and hygienic meas	ures			
The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the en	nd feēd. hing immediately.			
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp				
Protection of hands: Impervious gloves Check protective gloves prior to each use The protective gloves prior to each use	o 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: Tightly sealed goggles				
Full fáce protečtion Body protection: Protective work clothir	ng.			
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance:				
[°] Form: Color: Odor: Odor threshold:	Crystalline White Pungent Not determined.			
pH-value:	Not applicable.	(Cantel on page 2)		
		(Contd. on page 3)		

Product name: 2,4,6-Trimethylbenzyl chloride

	chloride	(Contd. of page 2
Change in condition		
Melting point/Melting range:	37-42 °C (99-108 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	114-115 °C (237-239 °F) (10 mmHg) Not determined	
	106 °C (223 °F)	
Flash point: Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined	
Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
A Stability and reactivity		
10 Stability and reactivity		
Reactivity No information known.	and a darage conditions	
Thermal decomposition / conditions to	nended storage conditions. be avoided: Decomposition will not occur if t	used and stored according to specifications.
Possibility of hazardous reactions No	dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials:	information available.	
Oxidizing agents		
Bases		
Heat		
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Hydrogen chloride (HCl)		
11 Toxicological information		
Information on toxicological effects	- (
Acute toxicity: Swallowing will lead to a LD/LC50 values that are relevant for c		d to the danger of perforation of esophagus and stomach.
Skin irritation or corrosion: Causes se		
Eve irritation or corrosion:		
This product is a lachrymator.		
Causes serious eye damage. Sensitization: No sensitizing effects kno	wn.	
Germ cell mutagenicity: No effects kno	NN.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know		railable from the EPA, IARC, NTP, OSHA or ACGIH.
Specific target organ system toxicity -	repeated exposure: No effects known.	
Specific target organ system toxicity -	single exposure: No effects known.	
Aspiration hazard: No effects known.		
Additional toxicological information:	o the best of our knowledge the acute and ch	onic toxicity of this substance is not fully known.
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12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant info	rmation available.	
Persistence and degradability No furth Bioaccumulative potential No further re	r relevant information available.	
Mobility in soil No further relevant inform	nation available.	
Additional ecological information:		
General notes: Do not allow material to be released to the	e environment without proper governmental p	ermits
Avoid transfer into the environment.	s environmenten minour proper governmentar p	
Results of PBT and vPvB assessment		
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	nt information available.	
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13 Disposal considerations		
Waste treatment methods	· · · · · · · · · · · · · · · · · · ·	
Recommendation Consult state, local o Uncleaned packagings:	r national regulations to ensure proper dispose	l.
Recommendation: Disposal must be ma	de according to official regulations.	
4 Transport information		
UN-Number		
UN-Number DOT, IMDG, IATA	UN32	31
UN-Number DOT, IMDG, IATA UN proper shipping name		
DOT, IMDG, IATA		51 sive solid, acidic, organic, n.o.s. (2,4,6-Trimethylbenzyl chloride) POSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2,4,6-Trimethylbenzyl chloride)

Product name: 2,4,6-Trimethylbenzyl chloride (Contd. of page 3) Transport hazard class(es) DOT Class 8 Corrosive substances. Label 8 (C4) Corrosive substances Class IMDG, IATA Class 8 Corrosive substances. Label Packing group DOT, IMDG, IATA 11 Environmental hazards: Not applicable. Special precautions for user Segregation groups Warning: Corrosive substances Acids Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN3261, Corrosive solid, acidic, organic, n.o.s. (2,4,6-Trimethylbenzyl chloride), 8, 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements 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. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/... Precautionary statements National regulations 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. 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 Propostion 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female 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. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. not liste 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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Date of preparation / last revision 11/23/2015/-Abbreviations and acronyms: RID: Rejement 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) ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: International Civil Aviation des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International 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 Identification System (USA) WHMIS: Workplace Hazardous Materials Identification System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Cuthal dose, 50 percent LD50: Cuthal dose, 50 percent LD50: Cuthal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Cuthal Concentration, 50