



٦

	Identification Product identifier Product name: Dimethyl tetrachloroterephthalate
	Stock number: L08800 CAS Number: 1861-32-1 EC number: 217-464-7 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 regress telephone number: During regress 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) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.
	Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1
	Reactivity Provide 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: 1861-32-1 Dimethyl tetrachloroterephthalate Identification number(s): EC number: 217-464-7
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. 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 Hydrogen chloride (HCI) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically.
	(Contd. on page 2)

Product name: Dimethyl tetrachloroterephthalate				
Provention of secondary bazards: No		(Contd. of page 1)		
Prevention of secondary hazards: No Reference to other sections				
See Section 7 for information on safe has See Section 8 for information on person	al 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.			
Information about protection against	explosions and fires: No information known.			
Conditions for safe storage, including Storage				
Requirements to be met by storeroon Information about storage in one con	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents.			
Further information about storage con Keep container tightly sealed.				
Store in cool, dry conditions in well seal				
Specific end use(s) No further relevant				
8 Exposure controls/personal prote				
Additional information about design of Properly operating chemical fume hood	of technical systems: 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: 1861-32-1 Dimethyl tetrachloroterephthalate (100.0%)				
EV (Canada) Long-term value: 5 mg/m ³				
Additional information: No data				
Exposure controls Personal protective equipment				
General protective and hygienic meas The usual precautionary measures for h	sures andling chemicals should be followed.			
The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	and feëd. thing immediately			
Wash hands before breaks and at the e	nd of work.			
Maintain an ergonomically appropriate v Breathing equipment: Use suitable res	pirator when high concentrations are present.			
Recommended filter device for short Use a respirator with type N95 (USA) or	term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dei	ermine if air-		
purifying respirators are appropriate. Or Protection of hands:	nly use equipment tested and approved under appropriate government standards.			
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.				
Eye protection: Safety glasses Body protection: Protective work cloth	ing.			
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information				
Appearance:	Devider			
Form: Odor:	Powder Not determined			
Odor threshold:	Not determined.			
pH-value: Change in condition	Not applicable.			
Melting point/Melting range: Boiling point/Boiling range:	156-159 °C (313-318 °F) Not determined			
Sublimation temperature / start:	Not determined			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits: Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water)	Not determined : Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
	איט זערעוטר זטופיעווג ווווטוווומנוטוו מימוומטול.			
10 Stability and reactivity				

10 llity and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents

Product name: Dimethyl tetrachloroterephthalate				
Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide	(Contd. of page 2)			
Hydrogen chloride (HCl)				
11 Toxicological information Information on toxicological effects				
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS)	contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for classification: Oral LD50 3000 mg/kg (rat)				
Skin irritation or corrosion: May cause irritation				
Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known.				
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this mater	ial is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Carcinogenicity: No classification data on carcinogenic properties of this mater Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (Specific target organ system toxicity - repeated exposure: No effects known	RTECS) contains reproductive data for this substance.			
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substa Additional toxicological information: To the best of our knowledge the acute a	ances (RTECS) contains multiple dose toxicity data for this substance. and chronic toxicity of this substance is not fully known.			
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not lis	sted.			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.				
Mobility in soil No further relevant information available. Additional ecological information:				
General notes: Do not allow undiluted product or large quantities to reach ground water, water o	nurse or seware system			
Avoid transfer into the environment. Results of PBT and vPvB assessment	Julise of sewage system.			
PBT: Not applicable.				
vPvB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations				
Waste treatment methods	dianagal			
Recommendation Consult state, local or national regulations to ensure proper of Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	disposai.			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA				
Transport hazard class(es)	Not applicable			
DOT, ADR, ADN, IMDG, IATA				
Class Packing group	Not applicable			
Packing group DOT, IMDG, IATA	Not applicable			
Environmental hazards: Special precautions for user	Not applicable. Not applicable.			
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code				
Transport/Additional information:	· · · · · · · · · · · · · · · · · · ·			
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	-			
15 Regulatory information Safety, health and environmental regulations/legislation specific for the su	15 Regulatory information			
GHS label elements Not applicable	DStance of Inixture			
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable				
National regulations				
This product is not listed in the U.S. Environmental Protection Agency Toxic Sur to research and development only. This product must be used by or directly und	bstances Control Act Chemical Substance Inventory. Use of this product is restricted ler the supervision of a technically qualified individual as defined by TSCA. This provide purposes.			
product must not be used for commercial purposes or in formulations for comme	rcial purposes.			

product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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. Information about limitation of use: For use only by technically qualified individuals.

Product name: Dimethyl tetrachloroterephthalate

(Contd. of pag 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. Substance is not listed. 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 08/09/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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 Information System (Canada) LCSD: Lethal concentration, 50 percent UDSD: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA -