



1 Identification Product identifier Product name: Terephthalaldehyde Stock number: A14930, L13270 **CAS Number:** 623-27-8 EC number: 210-784-8 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. Inerrito Fisher Scheman C. 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 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. H335 May cause respiratory irritation. Precautionary statements Precadionary statements 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. P405 Store locked um P405 Store locked um Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammability = 2 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: 623-27-8 Terephthalaldehyde Identification number(s): EC number: 210-784-8 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. (Contd. on page 2)

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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

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: Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. **Prevention of secondary nazards:** Keep away from ignition so **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 Handle under dry protective gas. Keep container tightly sealed. Information about protection against explosions and fires: Keep ignition sources away. 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 air. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **Specific end use(s)** No further relevant information available.

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:

he product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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.

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Avoid contact with the eyes and skin.
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Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands:

Protection of nanus: 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 o General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	chemical properties Crystalline powder White to cream Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	114-117 °C (237-243 °F)

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		(Control of normal
Roiling point/Roiling range:	245 °C (473 °F)	(Contd. of page
Boiling point/Boiling range: Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous)	76 °C (169 °F) Not determined.	
Ignition temperature: Decomposition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not applicable. 1.06 g/cm³ (8.846 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
Conditions to avoid No further releval Incompatible materials: Air Oxidizing agents	ant information available.	
1 Toxicological information	: Carbon monoxide and carbon dioxide	
Reproductive toxicity: No effects kno Specific target organ system toxicity	serious eye irritation. mown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. own. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effe	ects known. I: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
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Product name: Terephthalaldehyde	
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Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL	-73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Ballutant (DOT):	A/_
Marine Pollutant (DOT):	No
UN "Model Regulation":	
5 Regulatory information	
Safety, health and environmental regulations/legisla GHS label elements The product is classified and labe Hazard pictograms	
$\langle \rangle$	
GHS07	
P405 Store locked up. P501 Dispose of contents/container in acc National regulations All components of this product are listed in the U.S. Eni All components of this product are listed on the Canadi SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity Substance is not lis Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by to Other regulations, limitations and prohibitive regula Substance of Very High Concern (SVHC) according	 Stothing/eyé prótection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. sesh air and keep comfortable for breathing. secordance with local/regional/national/international regulations. nvironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Ian Non-Domestic Substances List (NDSL). Substance is not listed. ance is not listed. and is not listed. and listed. ant listed. and listed. and listed. and listed. ant listed. and listed. b not listed. b not listed. chnically qualified individuals. ations 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
information to ensure proper use and protect the health conformance with this Material Safety Data Sheet, or in	ement 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 n combination with any other product or process, is the responsibility of the user. ent par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ress society)

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)