



1 Identification Product identifier Product name: Terephthalonitrile Stock number: B23137, L10155 CAS Number: 623-26-7 EC number: 210-783-2 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) = 1Flammàbility = 1 TIVITY 1 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: 623-26-7 Terephthalonitrile Identification number(s): EC number: 210-783-2 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 freatment needed No further relevant information available.

### 5 Fire-fighting measures

Extinguishing media 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 cyanide (HCN) Nitrogen oxides (NOX) 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: 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.

Not determined

#### 7 Handling and storage

Sublimation temperature / start:

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. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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: Powder Color: White Odor: Odor threshold: Odorless Not determined. pH-value: Not applicable Change in condition Melting point/Melting range: Boiling point/Boiling range: 224-227 °C (435-441 °F) Not determined

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Product name: Terephthalonitrile		
		(Contd. of page 2
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water		
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recon	mandad ataraga ganditiana	
Thermal decomposition / conditions	s to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions R	Reacts with strong oxidizing agents	
Conditions to avoid No further relevant	ant information available	
Incompatible materials: Oxidizing age Hazardous decomposition products	ents <	
Carbon monoxide and carbon dioxide		
Hydrogen cyanide Nitrogen oxides		
1 Toxicological information		
Information on toxicological effects	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.	
Acute toxicity: The Registry of Toxic E LD/LC50 values that are relevant for	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.	
Skin irritation or corrosion: Causes a	skin irritation.	
Eye irritation or corrosion: Causes se	serious eye irritation.	
Sensitization: No sensitizing effects ki	known.	
Germ cell mutagenicity: No effects kr	known. ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno	own.	
Specific target organ system toxicity	<b>ty - repeated exposure:</b> No effects known.	
Aspiration hazard: No effects known.	<b>fy - single exposure:</b> May cause respiratory irritation.	
Subacute to chronic toxicity: No effe	ects known.	
Additional toxicological information	n: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant in	nformation available.	
Persistence and degradability No fur Bioaccumulative potential No further	rther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	formation available.	
Additional ecological information:		
General notes: Avoid transfer into the Results of PBT and vPvB assessme	environment.	
<b>PBT:</b> Not applicable.		
vPvB: Not applicable. Other adverse effects No further relev	event information available	
3 Disposal considerations		
Waste treatment methods Recommendation Consult state. local	al or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be r	made according to official regulations.	
4 Transport information UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	_
Transport hazard class(es)	Νυί αμρικανικ	
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable. Not applicable.	
	ex II of MARPOL73/78 and the IBC Code Not applicable.	
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		US/

(Contd. on page 4) USA

Safety Data Sheet per OSHA HazCom 2012

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roduct name: Terephthalonitrile	
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Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
5 Regulatory information	
Safety, health and environmental regulation	ons/legislation specific for the substance or mixture Id and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinše cautio P304+P340 IF INHALED: Remove pe P405 Store locked up. P501 Dispose of contents/conta National regulations All components of this product are listed in th All components of this product are listed on t SARA Section 313 (specific toxic chemica California Proposition 65 Prop 65 - Developmental toxicity, Substand Prop 65 - Developmental toxicity, female Su Information about limitation of use: For us Other regulations, limitations and prohibi Substance of Very High Concern (SVHC) a The conditions of restrictions according to market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (rec	rotective clothing/eyé protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. rson to fresh air and keep comfortable for breathing. ainer in accordance with local/regional/national/international regulations. ne U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. he Canadian Non-Domestic Substances List (NDSL). al listings) Substance is not listed. re Substance is not listed. re is not listed. Substance is not listed. bistance is not listed.
information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Date of preparation / last revision 11/23/20 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises of DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chen CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syste LC50: Lethal concentration, 50 percent USD: Lethal cose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (US NTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer	I Department 015 / - dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) nical Substances Chemical Society) Im (Canada) Hygienists (USA) A

EPA: Environmental Protection Agency (USA)