



1 Identification
Product identifier
Product name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)lanthanum(III)
Stock number: 36465 CAS Number:
14319-13-2 Relevant identified uses of the substance or mixture and uses advised against
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
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
Nije Irrit 2. 1/215. Courses alin irritation
Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2A H319 Causes serious eve 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
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
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
FIRE 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:
14319-13-2 Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)lanthanum(III)
4 First-aid measures
Description of first aid measures After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek îmmediate 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.
(Contd. on page 2)

Product name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)lanthanum(III)

Product name: Tris(2,2,6,6-tetramethyl-3,5-neptanedionato)lanthanum(III)			
Information for doctor Most important symptoms and effects Indication of any immediate medical a	s, both acute and delayed No further relevant information available. Itention 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 Metal oxide fume 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: 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. Store away from water/moisture. Further information about storage conditions: This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Store in cool, dry conditions in the sealed containers. Protect from humidity and water.			
 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 equipments General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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. Breating 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: Crystalline powder			
Odor: Odor threshold:	Not determined Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined		
Flash point:	Not applicable	(Contd. on page 2)	
		(Contd. on page 3)	

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	(Contd. of page 2)				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature: Decomposition temperature:	Not determined Not determined				
Auto igniting:	Not determined.				
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.				
Lower: Upper:	Not determined Not determined				
Vapor pressure:	Not applicable.				
Density:	Not determined				
Relative density Vapor density	Not determined. Not applicable.				
Evaporation rate	Not applicable.				
Solubility in / Miscibility with Water:	Not determined				
Partition coefficient (n-octanol/water):	Not determined.				
Viscosity: dynamic:	Not applicable.				
kinematic:	Not applicable. No further relevant information available.				
Other information	No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known.					
Chemical stability Stable under recomm	nended storage conditions. 5 be avoided: Decomposition will not occur if used and stored according to specifications.				
Possibility of hazardous reactions No	danderous reactions known				
Conditions to avoid No further relevant	information available.				
Incompatible materials: Oxidizing agents					
Öxidizing agents Water/moisture					
Hazardous decomposition products: Carbon monoxide and carbon dioxide					
Metal oxide fume					
11 Toxicological information					
Information on toxicological effects					
Acute toxicity: No effects known.					
LD/LC50 valúes that are relevant for c Skin irritation or corrosion: Causes sk					
Eve irritation or corrosion: Causes ser	ious eve irritation.				
Sensitization: No sensitizing effects kno	wn.				
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	wn. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive toxicity: No effects know	Reproductive toxicity: No effects known.				
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation.					
Aspiration hazard: No effects known.					
Subacute to chronic toxicity:	Subacute to chronic toxicity:				
and liver damage.	Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage.				
Subacute to chronic toxicity: No effect Additional toxicological information:	s known. Fo 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 info	normation available				
Persistence and degradability No furth	er relevant information available.				
Bioaccumulative potential No further re Mobility in soil No further relevant inform	elevant information available.				
Additional ecological information:					
General notes: Do not allow material to be released to the environment without proper governmental permits.					
Do not allow undiluted product or large o	uantities to reach ground water, water course or sewage system.				
Avoid transfer into the environment. Results of PBT and vPvB assessment					
PBT: Not applicable.					
vPvB: Not applicable. Other adverse effects No further releva	nt information available				
Other adverse enects no futher releva					
13 Disposal considerations					
Waste treatment methods					
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:					
Recommendation: Disposal must be ma	ade according to official regulations.				
14 Transport information					
Not a hazardous material for transportati UN-Number	on.				
DOT, IMDG, IATA	None				
UN proper shipping name DOT, IMDG, IATA	None				
Transport hazard class(es)					
DOT, ADR, IMDG, IATA					
Class	None				
	(Contd. on page 4) USA				

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Product name: Tris(2,2,6,6-tetramethyl-3,5-neptaned)	unato jiantinanum(m)
	(Contd. of page 3)
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
15 Regulatory information	
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms	ecific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P405 Store locked up. P501 Dispose of contents/container in accordance. National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used for commercial purposes or in formule. SARA Section 313 (specific toxic chemical listings) Substar California Proposition 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, male Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Substance of Very High Concern (SVHC) according to the F The conditions of restrictions according to Article 67 and A market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisat Chemical safety assessment: A Chemical Safety Assessment Chemical Safety Assessment is a context of the state assessment is a chemical safety Assestence is chemical safety Assessment is a chemical safety Asses	y protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ad keep comfortable for breathing. e with local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. nce is not listed. ot listed. sted. ad. Illy qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the tion for use) Substance is not listed.
16 Other information Employers should use this information only as a supplement to information to ensure proper use and protect the health and sat conformance with this Material Safety Data Sheet, or in combin Department issuing SDS: Global Marketing Department	other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user.
Department resulting SD2, Sloben Warkeling Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Altri Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPUB: 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