



1 Identification Product identifier Product name: Praseodymium (III) 2,4-pentanedionate	
Stock number: 13179 CAS Number: 13179 14553-09-4	
<i>Relevant identified uses of the substance or mixture and uses advised against.</i> <i>Identified use:</i> SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar The	
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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms 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 I Health (acute effects) = 1	
FRE I 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: 14553-09-4 Praseodymium (III) 2,4-pentanedionate	
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 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: Pick up mechanically. 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.	(Contd. on page 2) USA –

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See Section	13 for disp	osal information.
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See Section 13 for disposal information.		(Conta: of page 1)		
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 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 place in tightly closed containers. Storage Requirements to be met by storerooms and receptacles: No special requirements. 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.				
Components with limit values that require monitoring at the workplace: Not required. 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. 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. Eye protection: Safety glasses Body protection: Protective work clothing.				
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form:	Powder			
Odor: Odor threshold:	Odorless Not determined.			
pH-value:	Not applicable.			
· · · · · · · · · · · · · · · · · · ·	Not determined Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Product is not flammable. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower: Upper: Vapor pressure: Density: Relative density	Not determined Not determined Not applicable. Not determined Not determined.			
Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Not applicable. Insoluble			
Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined. Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn	nended storage conditions			

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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Metal oxide fume

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11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known			
LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation			
Sensitization: No sensitizing effects known.			
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this mat	erial is subjected from the EDA JARC NTR OSHA or ACCIU		
Reproductive toxicity: No effects known.	enal is available from the EPA, IARC, MTP, OSHA of ACGIH.		
Specific target organ system toxicity - repeated exposure: No effects know	wn.		
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.			
Subacute to chronic toxicity:			
Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposu and liver damage.	are may also lead to sensitivity to heat, itching, increased awareness of odor and taste,		
Subacute to chronic toxicity: No effects known.			
Subacute to chronic toxicity:			
2,4-Pentanedione (acetylacetone), if present or released, is narmful if swallow laboratory animals and is also flammable.	ed, and may irritate the eyes. 2,4-Pentanedione has caused reproductive effects in		
Additional toxicological information: To the best of our knowledge the acut	e and chronic toxicity of this substance is not fully known.		
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 material to be released to the environment without proper govern	mental permits.		
Avoid transfer into the environment. Results of PBT and vPvB assessment			
PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local or national regulations to ensure prope Uncleaned packagings:	r disposal.		
Recommendation: Disposal must be made according to official regulations.			
11 Transport information			
14 Transport information Not a hazardous material for transportation.			
UN-Number			
DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es)			
DOT, ADR, IMDG, IATA			
Class	None		
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 and the IBC Co			
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
Marine Fondiani (DOT).	NO		
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the s	substance or mixture		
GHS label elements Not applicable			
Hazard pictograms Not applicable Signal word 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 S to research and development only. This product must be used by or directly up	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 Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.			
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.			
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 PEACH Pergulations (EC) No. 1007/2006. 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. Substance is not listed.	(Contd. on page 4)		

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Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.	Annex XIV of the REACH Reg	ulations (requiring	y Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		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.

conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing 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 Maritime Code for Dangerous Goods DOT: US Department of Transportation 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 dose, 50 percent LD50: Lethal dose, 50 percent US50: Lethal dose, 50 percent CACGHI: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA