Safety data sheet according to 1907/2006/EC, Article 31

Printing date 18.07.2021

CHEMICALS, INC.

Revision: 18.07.2021

· 1.1 Product ide	ntifier
	ris(2,2,6,6-tetramethyl-3,5-heptanedionato)neodymium(III), 99% (99.9%-Nd) (REO Nd(TMHD) <u>3</u>]
	entified uses of the substance or mixture and uses advised against
v	ls, Inc. , RT, MA 01950
• 1.4 Emergency EMERGENCY:	tation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424-9300 comming times: + 1 (078) 400, 1600
During normal	opening times: +1 (978) 499-1600
	: Hazards identification
SECTION 2 2.1 Classificati Classification d	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008
SECTION 2 2.1 Classificati Classification of The substance 2.2 Label elem	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents
SECTION 2 2.1 Classificati Classification of The substance 2.2 Label elem Labelling acco	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void
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SECTION 2 • 2.1 Classificati • Classification of The substance of • 2.2 Label eleman • Labelling acco • Hazard pictogo • Signal word Vo • Hazard stateman • Precautionary	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void bid ents Void statements
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SECTION 2 2.1 Classificati Classification of The substance 2.2 Label elem Labelling acco Hazard pictogr Signal word Vo Hazard statem Precautionary P262 P280	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void bid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, a
SECTION 2 2.1 Classificati Classification of The substance of 2.2 Label elema Labelling acco Hazard pictogr Signal word Vo Hazard statema Precautionary P262 P280 P305+P351+F	 Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void bid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, a present and easy to do. Continue rinsing.
SECTION 2 2.1 Classificati Classification of The substance of 2.2 Label elem Labelling acco Hazard pictogr Signal word Vo Hazard statem Precautionary P262 P280 P305+P351+P P304+P340	 Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void bid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
SECTION 2 2.1 Classificati Classification of The substance of 2.2 Label elemi Labelling acco Hazard pictogr Signal word Vo Hazard statemo Precautionary P262 P280 P305+P351+F	 Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void bid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international
SECTION 2 2.1 Classificati Classification of The substance 2.2 Label elema Labelling acco Hazard pictogr Signal word Vo Hazard statema Precautionary P262 P280 P305+P351+F P304+P340 P403+P233 P501	 Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void oid mts Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, a present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internationar regulations.
SECTION 2 2.1 Classificati Classification of The substance of 2.2 Label elema Labelling acco Hazard pictogr Signal word Vo Hazard statemo Precautionary P262 P280 P305+P351+P P304+P340 P403+P233 P501 2.3 Other haza Results of PBT	: Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 is not classified according to the CLP regulation. ents rding to Regulation (EC) No 1272/2008 Void ams Void oid ents Void statements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, is present and easy to do. Continue rinsing. IF IN HALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internationar regulations. rds
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(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

15492-47-4 Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)neodymium(III),

99% (99.9%-Nd) (REO) [Nd(TMHD)3]

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- · 6.4 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
- Information about fire and explosion protection: No special measures required.
- · 7.2 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: Not required.
- Further information about storage conditions: None.

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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

General Information Appearance:		
Form:	Crystalline	
Colour:	Violet	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point: Initial boiling point and boiling ran	209-212 °C age: 270 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Product is not flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	

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	(Contd. of p	bage
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	150 hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC(EC)	0.00 %	
Solids content:	100.0 %	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
 14.5 Environmental hazards: Marine pollutant: 	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.	
· UN ''Model Regulation'':	not regulated	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director

• 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)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative