

DYSPROSIUM 2,4-PENTANEDIONATE, hydrate

Safety Data Sheet AKD270 Date of issue: 02/29/2016 Versi

Version: 1.0

SECTION 1: Identification of the substance	/mixture and of the company/underta	iking
1.1. Product identifier		
Product form : Sub	stance	
Physical state : Solid	ł	
Substance name : DYS	PROSIUM 2,4-PENTANEDIONATE, hydrate	
Product code : AKD	270	
Formula : C15	H21DyO6·xH2O	
Synonyms : DYS	PROSIUM ACETYLACETONATE	
Chemical family : RAF	E EARTH COMPOUND	
1.2. Relevant identified uses of the substance o	r mixture and uses advised against	
Use of the substance/mixture : Che	mical intermediate research use only	
1.3. Details of the supplier of the safety data she	eet	
GELEST, INC.		
11 East Steel Road Morrisville, PA 19067		
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:3 info@gelest.com - www.gelest.com	0 PM EST	
1.4. Emergency telephone number		
Emergency number : CHE	MTREC: 1-800-424-9300 (USA); +1 703-527-3887	7 (International)
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
GHS-US classification		
Not classified		
2.2. Label elements		
GHS-US labeling		
No labeling applicable		
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
No data available		
SECTION 3: Composition/Information on in	aredients	
3.1. Substance		
	o-constituent	
21	PROSIUM 2,4-PENTANEDIONATE, hydrate	
	37-88-8	
Name Dysprosium 2,4-pentanedionate, hydrate	Product identifier % (CAS No) 14637-88-8 99	6 GHS-US classification
שיארי איז איז איז איז איז איז איז איז איז אי		00
3.2. Mixture		

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.		
First-aid measures after inhalation	aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If y unwell, seek medical advice.		thing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap and	water. Get medical advice/attention.	
02/29/2016	EN (English US)	SDS ID: AKD270	Page 1

DYSPROSIUM 2,4-PENTANEDIONATE, hydrate Safety Data Sheet

No additional information available	n.
Symptoms/injuries after inhalation : May cause irritation to the respiratory tract. Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
Symptoms/injuries after ingestion : No information available. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.	
5.2. Special hazards arising from the substance or mixture	
Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to ele temperatures or open flame.	vated
5.3. Advice for firefighters Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed su	Irfaces
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection	
Avoid contact with skin and eyes. Do not breathe dust.	GUUII.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Protective equipment : Wear protective equipment as described in Section 8.	
Emergency procedures : Evacuate unnecessary personnel.	
6.1.2. For emergency responders	owwith
Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup cr proper protection. For further information refer to section 8: "Exposure controls/person protection".	
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up	
	or
For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers streams.	, 01
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.	
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal protection.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide exhaust or general room ventilation to minimize exposure to dust.	local
Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work.	ו mild
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions : Keep container tightly closed.	
Incompatible materials : Strong acids. Strong oxidizers.	
Storage area : Store in a well-ventilated place. Store away from heat.	
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal protection	
8.1. Control parameters No additional information available	

DYSPROSIUM 2,4-PENTANEDIONATE, hydrate

Safety Data Sheet

8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be
	available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is
	recommended. NIOSH-certified dust and mist (teal cartridge) respirator.
SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Crystals.
Molecular mass	: 459.83 g/mol
Color	: White to off-white.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 134 - 137 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information No additional information available	
	···
SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	\$
No additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Strong acids. Strong oxidizers.	
10.6. Hazardous decomposition produc	
Dysprosium oxide fumes. Organic acid vapors	

Dysprosium oxide fumes. Organic acid vapors.

DYSPROSIUM 2,4-PENTANEDIONATE, hydrate Safety Data Sheet

SECTION 11: Toxicological informat	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	: Not classified
Specific target organ toxicity (single exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: No information available.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of solid
	materials or residues at a licensed site.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
No additional information available	
Air transport	

Air transport

No additional information available

DYSPROSIUM 2,4-PENTANEDIONATE, hydrate

Safety Data Sheet

SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
DYSPROSIUM 2,4-PENTANEDIONATE	E, hydrate (14637-88-8)
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States
Dysprosium 2,4-pentanedionate, hydrogenetic baseline ba	rate (14637-88-8)
Not listed on the United States TSCA (T	oxic Substances Control Act) inventory
15.2. International regulations	

No additional information available

15.3. US State regulations				
DYSPROSIUM 2,4-PENTANEDIONATE, hydrate(14637-88-8)				
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition Toxicity	n 65 - Developmental	No		
U.S California - Proposition Toxicity - Female	65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	65 - Reproductive	No		
Dysprosium 2,4-pentanedio	onate, hydrate (14637-88-8)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	

No

No

SECTION 16: Other information	
Abbreviations and acronyms	Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard

Prepared by safety and environmental affairs.

No

Date of issue: 02/29/2016 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2016 Gelest Inc. Morrisville, PA 19067

Physical

No

: 0 Minimal Hazard