

## SAFETY DATA SHEET

## Cerium (III) 2,4-pentanedionate hydrate

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Cerium (III) 2,4-pentanedionate hydrate
CAS number	206996-61-4
EC number	683-618-9
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	Not suitable for human consumption or veterinary purposes.
1.3. Details of the supplier of	the safety data sheet
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com
1.4. Emergency telephone nu	umber
+44 (0) 7769276927	
SECTION 2: Hazards identified	cation
2.1. Classification of the subs	stance or mixture
Classification (SI 2019 No. 72	20)
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361 STOT SE 3 - H335
Environmental hazards	Not Classified
2.2. Label elements	
EC number	683-618-9
Hazard pictograms	
Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation.

Precautionary statements	<ul> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing dust.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/ attention.</li> <li>P312 Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P332+P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> </ul>

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Product name	Cerium (III) 2,4-pentanedionate hydrate	
CAS number	206996-61-4	
EC number	683-618-9	
Chemical formula	C15H21CeO6 · xH2O	
SECTION 4: First aid meas	sures	
4.1. Description of first aid	measures	
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.	
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.	
Skin contact	Rinse with water.	
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.	
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.	

4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.	
Ingestion	May cause irritation.	
Skin contact	Redness. Irritating to skin.	
Eye contact	Irritating to eyes.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fr	om the substance or mixture	
Specific hazards	None known.	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. cerium oxides	
5.3. Advice for firefighters		
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills
	immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar
	and reuse, if possible. Collect and place in suitable waste disposal containers and seal
	securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a
	spillage. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Suspected of damaging fertility. Suspected of damaging the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Chemical storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure controls/Personal protection	

#### 8.1. Control parameters

Occupational exposure limits STEL:

OILL.

TWA:

### 8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Eye/face protection

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a fullface respirator may be required instead.

Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties		
Appearance	Powder.	
Colour	Orange. or Red.	
Odour	Not known.	
Odour threshold	No information available.	
рН	No information available.	
Melting point	131-12°C/267.8-269.6°F	
Initial boiling point and range	No information available.	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	No information available.	
Vapour density	No information available.	
Relative density	No information available.	
Solubility(ies)	No information available.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	

9.2. Other information	
Molecular weight	437.44
SECTION 10: Stability and rea	ctivity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. cerium oxides
SECTION 11: Toxicological int	ormation
SECTION 11: Toxicological int 11.1. Information on toxicologi	
11.1. Information on toxicologi Acute toxicity - oral	cal effects
<u>11.1. Information on toxicologi</u> Acute toxicity - oral Summary Acute toxicity - dermal	cal effects Based on available data the classification criteria are not met.
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11.1. Information on toxicologi         Acute toxicity - oral         Summary         Acute toxicity - dermal         Summary         Acute toxicity - inhalation         Summary         Acute toxicity - inhalation         Summary         Skin corrosion/irritation         Summary         Serious eye damage/irritation         Summary         Respiratory sensitisation         Summary         Skin sensitisation	cal effects         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Causes skin irritation.         Causes serious eye irritation.         Based on available data the classification criteria are not met.
11.1. Information on toxicologi         Acute toxicity - oral         Summary         Acute toxicity - dermal         Summary         Acute toxicity - inhalation         Summary         Acute toxicity - inhalation         Summary         Skin corrosion/irritation         Summary         Serious eye damage/irritation         Summary         Respiratory sensitisation         Summary         Skin sensitisation         Summary         Germ cell mutagenicity	cal effects         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Causes skin irritation.         Causes serious eye irritation.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.

IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Summary	Suspected of damaging the unborn child. Suspected of damaging fertility.
Specific target organ toxicity -	single exposure
Summary	May cause respiratory irritation.
Target organs	Respiratory system, lungs
Specific target organ toxicity -	repeated exposure
Summary	Based on available data the classification criteria are not met.
Aspiration hazard Summary	Not relevant. Solid.
General information	Avoid contact during pregnancy/while nursing. May damage fertility. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.
Ingestion	May cause irritation.
Skin contact	Redness. Irritating to skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	Respiratory system, lungs
Target organs SECTION 12: Ecological info	
SECTION 12: Ecological info	mation Not regarded as dangerous for the environment. However, large or frequent spills may have
SECTION 12: Ecological info Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity	mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
SECTION 12: Ecological info Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity Summary	mation Not regarded as dangerous for the environment. However, large or frequent spills may have
SECTION 12: Ecological info Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity	mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
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SECTION 12: Ecological information         Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary <u>12.2. Persistence and degrade</u>	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.
SECTION 12: Ecological information         Ecotoxicity         12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potent	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Mability         The degradability of the product is not known.
SECTION 12: Ecological information         Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Mability         The degradability of the product is not known.
SECTION 12: Ecological information         Ecotoxicity         12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potent	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Image: A state of the product is not known.         Image: A state of the product is not known.
SECTION 12: Ecological information         Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.
SECTION 12: Ecological information         Ecotoxicity         12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.         Image: A state of the product is not known.
SECTION 12: Ecological infor         Ecotoxicity         12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrada         Persistence and degrada         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil         Mobility         12.5. Results of PBT and vPv	mation         Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.         Image: Provide the the transition of the product is not known.         Image: Product the transition of the product is not known.         Image: Product the transition of the product is not known.         Image: Product the transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.         Image: Product transition of the product is not known.
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### Cerium (III) 2,4-pentanedionate hydrate

#### SECTION 13: Disposal considerations

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13.1. Waste treatment me	ethods
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 14: Transport i	nformation

## General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### **SECTION 15: Regulatory information**

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

National regulationsHealth and Safety at Work etc. Act 1974 (as amended).The Carriage of Dangerous Goods and Use of Transportable Pressure EquipmentRegulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].EH40/2005 Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

**EU - EINECS/ELINCS** 

None of the ingredients are listed or exempt.

SECTION 16: Other information		
Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC50: Lethal Concentration to 50 % of a test population.</li> <li>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC<sub>50</sub>: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>	
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Repr. = Reproductive toxicity Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure	
Classification procedures according to SI 2019 No. 720	STOT SE 3 - H335: Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Repr. 2 - H361: : Expert judgement.	
Training advice	Only trained personnel should use this material.	
Revision date	29/03/2023	
Revision	1	
SDS number	2215	
Hazard statements in full	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child.	

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.