Printing date 07/18/2021

CHEMICALS, INC.

Reviewed on 07/14/2021

	ame
Trade nan	ne: <u>Cadmium acetate, anhydrous (99.999%-Cd) PURATREM</u>
• Item num • CAS Num 543-90-8 • EC numbe 208-853-2	
• <b>Details of</b> • <b>Manufact</b> Strem Che 7 Mulliken	YPORT, MA 01950
• <b>Emergenc</b> EMERGE	on department: Technical Department y telephone number: NCY: CHEMTREC: + 1 (800) 424-9300 rmal opening times: +1 (978) 499-1600
Hazard(	s) identification
Classificat	ion of the substance or mixture
	GHS06 Skull and crossbones
Acute Tox.	3 H331 Toxic if inhaled.
	GHS08 Health hazard
Muta. 2	GHS08 Health hazard H341 Suspected of causing genetic defects.
Muta. 2	H341 Suspected of causing genetic defects.
Muta. 2 Carc. 1A Carc. TA	<ul> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> <li>GHS07</li> <li>4 H302 Harmful if swallowed.</li> </ul>
Muta. 2 Carc. 1A Carc. TA Acute Tox. Acute Tox.	<ul> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> <li>GHS07</li> <li>4 H302 Harmful if swallowed.</li> <li>4 H312 Harmful in contact with skin.</li> </ul>
Muta. 2 Carc. 1A Carc. TA Acute Tox. Acute Tox. Acute Tox. Label elem GHS label	<ul> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> <li>GHS07</li> <li>4 H302 Harmful if swallowed.</li> <li>4 H312 Harmful in contact with skin.</li> <li>tents</li> <li>elements</li> <li>nce is classified and labeled according to the Globally Harmonized System (GHS).</li> </ul>
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Trade name: Cadmium acetate, anhydrous (99.999%-Cd) PURATREM (Contd. of page 1) · Hazard-determining components of labeling: *cadmium di(acetate)* · Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 *Toxic if inhaled.* H341 Suspected of causing genetic defects. H350 May cause cancer. · Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 4Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH \*4 Health = \*4FIRE 0 Fire = 0Reactivity = 0REACTIVITY 0 · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

## 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 543-90-8 cadmium di(acetate)
- · Identification number(s)
- EC number: 208-853-2

## 4 First-aid measures

- $\cdot$  Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

*Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.* 

- After inhalation:
- Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

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(Contd. of page 2)

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Immediately call a doctor.
- 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: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:

Do not allow product to reach sewage system or any water course.

- Inform respective authorities in case of seepage into water course or sewage system.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **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.
- · Protective Action Criteria for Chemicals

· PAC-1:	
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0.21 mg/m3

· PAC-3:

· PAC-2:

1.6 mg/m3

9.6 mg/m3

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · 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.
- $\cdot \textit{Further information about storage conditions: Keep receptacle tightly sealed.}$

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

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 543-90-8 cadmium di(acetate)

- PEL Long-term value: 0.005 mg/m<sup>3</sup> as Cd; see 29 CFR 1910.1027
- REL See Pocket Guide App. A
- TLV Long-term value: 0.01 0.002\* mg/m<sup>3</sup> as Cd; \*respirable fraction; BEI

• Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- · Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · 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:



Tightly sealed goggles

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(Contd. of page 4)

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Powder	
Color:	White	
Odor:	Odorless Not determined.	
Odor threshold:		
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	234 °C (453 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
<i>Density at 20 •C (68 •F):</i>	1.4 g/cm <sup>3</sup> (11.683 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
Other information	No further relevant information available.	

## 10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 333 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

· NTP (National Toxicology Program)

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## **12 Ecological information**

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

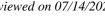
### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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# Safety Data Sheet according to OSHA HCS

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· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.* 

Transport information	
UN-Number DOT, IMDG, IATA	UN2570
UN proper shipping name DOT IMDG IATA	Cadmium compounds CADMIUM COMPOUND, MARINE POLLUTANT CADMIUM COMPOUND
Transport hazard class(es)	
DOT	
TOXIC	
Class Label	6.1 Toxic substances 6.1
IMDG	
Class	6.1 Toxic substances
Label	6.1
Class Label	6.1 Toxic substances 6.1
Packing group	012
DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
Special precautions for user	Not applicable.
Danger code (Kemler):	60
EMS Number: Stowage Category	F-A,S-A A
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.



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#### Trade name: Cadmium acetate, anhydrous (99.999%-Cd) PURATREM

	(Contd. of page 7)
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 100 kg
	On cargo aircraft only: 200 kg
· IMDG	
· Limited quantities (LQ)	5 kg
$\cdot$ Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 2570 CADMIUM COMPOUNDS, 6.1, III

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms         View       GHS06         Signal word Danger         Hazard-determining components of labeling:         cadmium dilacetate)         Hazard-determining components of labeling:         cadmium dilacetate)         Hazard statements         H301 + H312 Harmful if swallowed or in contact with skin.         H331 Toxic if inhaled.         H341 Suspected of causing genetic defects.         H350 May cause cancer.         Precautionary statements         P260 Wear protective gloves/protective clothing/eye protection/face protection.         P261 Avoid breathing dust/fume/gas/mist/vapors/spray         P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.         P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P403 + P233 Store in a well-ventilated place. Keep container lightly closed.         P501 Dispose of contents/container in accordance with local/regional/national/international regulations.         Additional classification according to Decree on Hazardous Materials:         Carcinogenic hazardous material group I (extremely dangerous).         Carcinogenic hazardous material group II (dangerous).         Carcinogenic hazardous material group II (dangerous).         Carcinogenic assessment: A Chemical Safety Assessment has not been carried out.         Workers are not allowed	ade name: Cadmium acetate, anhydrous (99.999%-Cd) PURATRE	
With State         CHISOG         Carring of Damage         Chick Terreneous Damage         Contract With Statements         May cause cancer.         Precationary statements         Precationary statements         Precationary statements         Passed         Passed     <	· Hazard pictograms	(Contd. of page
Signal word Danger  Lacard-determining components of labeling: Lacardium d(acetate)  Hazard-determining components of labeling: Lacardium d(acetate)  Hazard statements  Ha302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H341 Suspected of causing genetic defects. H350 May cause cancer.  Precationary statements  P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations: Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group I (extremely dangerous). Carcinogenic hazardous material group II (dangerous). Carcinogenic hazardous material group II (dangerous). Laformation about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities certain cases. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.  Department issuing SDS: Technical Department. Comtact: Technical Director Date of preparation //18/2021 / - Abbreviations and acronyms: ADE: Accord Calle for magrous Goods DOT: US Department Association ACGHE: Americal		
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Hazard-determining components of labeling:         cadmium difacetate)         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H3131 Toxic if inhaled.         H3141 Suspected of causing genetic defects.         H3341 Suspects of causing genetic defects.         Precautionary statements         Precautionary statements         P200 Wear protective gloves/protective clothing/eye protection/face protection.         P211 Avoid breathing dust/fume/gas/mist/vapors/spray         P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.         P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P403+P233 Store in a well-veniliated place. Keep container tightly closed.         P501 Dispose of contents/container in accordance with local/regional/national/international regulations:         Additional classification according to Decree on Hazardous Materials:         Carcinogenic hazardous material group II (very dangerous).	GHS06 GHS08	
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Hazard statements         H302 + H312         H331       Toxic if inhaled.         H331       Suspected of causing genetic defects.         H341       Suspected of causing genetic defects.         H352       May cause cancer.         Precautionary statements       Percontinuoury statements         P201       Avoid breathing dust/fume/gas/mist/vapors/spray         P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.         P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P403+P233 Store in a well-ventilated place. Keep container tightly closed.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations:         Additional classification according to Decree on Hazardous Materials:         Carcinogenic hazardous material group II (very dangerous).         Carcinogenic hazardous material group II (very dangerous).         Carcinogenic hazardous material group III (dangerous).         Information about limitation of use:         Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities certain cases.         Chemical safety assessment: A Chemical Safety Assessment has not been carried out.         Department issuing SDS: Technical Department.         Contact: Technical Director         Date of preparation / last revisi	· Hazard-determining components of labeling:	
<ul> <li>H302+H312 Harmful if swallowed or in contact with skin.</li> <li>H311 Toxic if inhaled.</li> <li>H331 Toxic if inhaled.</li> <li>H331 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> <li>Precautionary statements</li> <li>P260 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations:</li> <li>Additional classification according to Decree on Hazardous Materials:</li> <li>Carcinogenic hazardous material group I (extremely dangerous).</li> <li>Carcinogenic hazardous material group II (extremely dangerous).</li> <li>Carcinogenic hazardous material group II (extremely dangerous).</li> <li>Carcinogenic hazardous material group II (dangerous).</li> <li>Information about limitation of use:</li> <li>Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities certain cases.</li> <li>Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> </ul> Other information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship. Department issuing SDS: Technical Department. Contact: Technical Director Date of preparation / last revision 07/18/2021 / - Abbreviational Martines code for Dangerous Goods D07: IS Department of Temsport Association ACCIF: American Conference of Governmental Industrial Hyglenists ERC: Encored Irrenport Association ACCIF: American Conference of Governmental Industrial Hyglen		
<ul> <li>H331 Toxic if inhaled.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> <li>Precautionary statements</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P304+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P403+P333 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations:</li> <li>Additional classification according to Decree on Hazardous Materials:</li> <li>Carcinogenic hazardous material group I (extremely dangerous).</li> <li>Carcinogenic hazardous material group II (very dangerous).</li> <li>Carcinogenic hazardous material group II (dangerous).</li> <li>Information about limitation of use:</li> <li>Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities certain cases.</li> <li>Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> </ul> Other information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship. Department issuing SDS: Technical Department. Contact: Technical Director Date of preparation / last revision 07/18/2021 / - Abbreviations and acronyms: Arccord européens sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Grifts der proparation / last revision 6005 Dir US Degrement of Transportation MA: Accord européens sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio Carriage of Dargerous Goods		
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VOC: Volatile Organic Compounds (USA, EU)	NFPA: National Fire Protection Association (USA)	
LD50: Lethal dose, 50 percent	LC50: Lethal concentration, 50 percent	

- LD50: Lethal dose, 50 percent

*PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative* 

(Contd. on page 10)



Printing date 07/18/2021

CHEMICALS, INC.

Reviewed on 07/14/2021

### Trade name: Cadmium acetate, anhydrous (99.999%-Cd) PURATREM

(Contd. of page 9)

US

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 1A: Carcinogenicity – Category 1A