Printing date 18.07.2021

CHEMICALS, INC.

Revision: 14.07.2021

111 1 10000	ct identifier
Trade nar	ne: <u>Cadmium acetate, anhydrous (99.999%-Cd) PURATREM</u>
CAS Num 543-90-8 EC numb 208-853-2 1.2 Releve	er:
<b>Manufact</b> Strem Che 7 Mulliker	YPORT, MA 01950
<b>1.4 Emerg</b> EMERGE	formation obtainable from: Technical Department eency telephone number: NCY: CHEMTREC: + 1 (800) 424-9300 rmal opening times: +1 (978) 499-1600
<b>SECTIC</b>	N 2: Hazards identification
2.1 Classi	N 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones
2.1 Classi Classifica	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008
2.1 Classi Classifica	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones
2.1 Classi Classifica	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H331 Toxic if inhaled.
2.1 Classification Classification Acute Tox	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H331 Toxic if inhaled. GHS08 health hazard
2.1 Classi Classifica Acute Tox Acute Tox Muta. 2	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H331 Toxic if inhaled. GHS08 health hazard H341 Suspected of causing genetic defects.
2.1 Classification Classification Acute Tox Acute Tox Muta. 2 Carc. 1A	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H331 Toxic if inhaled. GHS08 health hazard H341 Suspected of causing genetic defects. H350 May cause cancer.
2.1 Classi Classification Acute Tox Muta. 2 Carc. 1A Carc. 1A	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones .3 H331 Toxic if inhaled. GHS08 health hazard H341 Suspected of causing genetic defects. H350 May cause cancer. GHS07

Printing date 18.07.2021

CHEMICALS.

Revision: 14.07.2021

	(Contd. of pag
$\cdot$ Hazard	pictograms
Size .	
vv	
GHS06	GHS08
· Signal w	vord Danger
· Hazard-	determining components of labelling:
cadmiun	n di(acetate)
· Hazard	statements
H302+E	I312 Harmful if swallowed or in contact with skin.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
· Precauti	ionary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P301+P	312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P	340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	233 Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
· 2.3 Othe	r hazards
· Results	of PBT and vPvB assessment

# SECTION 3: Composition/information on ingredients

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

# **SECTION 4: First aid measures**

- 4.1 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 equipment 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.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 3)

GB -

Printing date 18.07.2021

Revision: 14.07.2021

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

- · After swallowing: Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 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.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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 Thorough dedusting. Ensure good ventilation/exhaustion at the workplace.

*Open and handle receptacle with care.* 

· Information about fire - and explosion protection: Keep respiratory protective device available.

- · 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: Keep container tightly sealed.
- 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.

(Contd. on page 4)





(Contd. of page 2)

Printing date 18.07.2021

Revision: 14.07.2021

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

(Contd. of page 3)

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- 543-90-8 cadmium di(acetate)

WEL Long-term value: 0.025 mg/m<sup>3</sup> as Cd, Carc

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

- · 8.2 Exposure controls
- · Personal protective equipment:
- $\cdot$  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.

• *Respiratory protection:* 

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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

General Information		
Appearance:		
Form:	Powder	
Colour:	White	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	234 °C	
Initial boiling point and boiling ran	<b>ige:</b> Undetermined.	
Flash point:	Not applicable.	

Printing date 18.07.2021

CHEMICALS, INC

Revision: 14.07.2021

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

	(Contd. of pag
Flammability (solid, gas):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	1.4 g/cm <sup>3</sup>
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

Harmful if swallowed or in contact with skin. Toxic if inhaled.

#### · LD/LC50 values relevant for classification:

Oral LD50 333 mg/kg (rat)

(Contd. on page 6)

GB -

Printing date 18.07.2021

Revision: 14.07.2021

(Contd. of page 5)

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

- · 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
- Suspected of causing genetic defects.
- · Carcinogenicity
- May cause cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- 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.

#### **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

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

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information				
14.1 UN-Number				
ADR, IMDG, IATA	UN2570			
14.2 UN proper shipping name				
ADR	2570 CADMIUM COMPOUND			
IMDG	CADMIUM COMPOUND, MARINE POLLUTANT			
IATA	CADMIUM COMPOUND			

GB



Printing date 18.07.2021

CHEMICALS, INC.

Revision: 14.07.2021

	(Contd. of pag
14.3 Transport hazard class(es)	
ADR	
Class	6
Label	6.1
IMDG	
Class	6.1 Toxic substances.
Label	6.1
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards: Marine pollutant:	No Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Not applicable.
Danger code (Kemler):	60
EMS Number: Stowage Category	F-A,S-A A
14.7 Transport in bulk according to Ann Marpol and the IBC Code	<i>ex II of</i> Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities $(EQ)$	Code: El
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
Transport category	2
Tunnel restriction code	Ē
IMDG	
Limited quantities (LQ)	5 kg

Printing date 18.07.2021

Revision: 14.07.2021

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

	(Contd. of page 7)
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 2570 CADMIUM COMPOUND, 6.1, III

# **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.
- · Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 23

#### · National regulations:

• Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group I (extremely 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 in certain cases.

• 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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

(Contd. of page 7