NC.	Safety data sheet according to 1907/2006/EC, Article 31	1 uge 1/0
Pr	inting date 16.07.2021	Revision: 16.07.2021
	SECTION 1: Identification of the substance/mixture and of the compo	iny/undertaking
	· 1.1 Product identifier	
	· Trade name: Chromium(II) chloride, anhydrous (99.99%-Cr) PURATREM	
	 Item number: 24-2405 CAS Number: 10049-05-5 EC number: 233-163-3 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 	
	 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com 	
	 Further information obtainable from: Technical Department 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600 	
	SECTION 2: Hazards identification	
	 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 	
	GHS07	
	Acute Tox. 4 H302 Harmful if swallowed.	
	 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms 	
	GHS07	
	· Signal word Warning	
	 Hazard-determining components of labelling: chromium dichloride Hazard statements 	

H302 Harmful if swallowed.

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CHEMICALS,

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

- Keep out of reach of children. Read label before use. P102
- P103
- P231 Handle under inert gas.
- P262 Do not get in eyes, on skin, or on clothing.

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HEMICALS, INC.

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

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if							
	present and easy to do. Continue rinsing.						
P403+P233	Store in a well-ventilated place. Keep container tightly closed.						
P422	Store contents under inert gas.						
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.						

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

• **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 10049-05-5 chromium dichloride
- · Identification number(s)
- EC number: 233-163-3

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.

- 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: 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: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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Trade name: Chromium(II) chloride, anhydrous (99.99%-Cr) PURATREM

· 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 Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

· Handling: Handle under inert gas.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

• Storage: Store contents under inert gas.

· 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.

• 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:

10049-05-5 chromium dichloride

WEL Long-term value: 0.5 mg/m³ as Cr

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

· 8.2 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.
- 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.

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Trade name: Chromium(II) chloride, anhydrous (99.99%-Cr) PURATREM				
 Penetration time of glove material The exact break through time has to be observed. Eye protection: Safety glasses 	(Contd. of page 3) be found out by the manufacturer of the protective gloves and has to be chemical properties Powder Light green Characteristic Not determined. Not applicable. 824 °C ge: Undetermined. Not applicable. Not determined. Not applicable. Soluble.			
 9.1 Information on basic physical and c General Information Appearance: 				
Form: Colour: • Odour:	Light green			
· Odour threshold:	Not determined.			
· pH-value:	Not applicable.			
• Change in condition Melting point/freezing point: Initial boiling point and boiling range				
· Flash point:	Not applicable.			
· 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: Upper:				
· Vapour pressure:	Not applicable.			
 Density at 20 °C: Relative density Vapour density Evaporation rate 	Not determined. Not applicable.			
• Solubility in / Miscibility with water:	Soluble.			
· Partition coefficient: n-octanol/water:	Not determined.			
· Viscosity: Dynamic: Kinematic:				
 Solvent content: Organic solvents: VOC (EC) 9.2 Other information 	0.00 %			

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.

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- · 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.

· LD/LC50 values relevant for classification:

10049-05-5 chromium dichloride

Oral LD50 1870 mg/kg (rat)

· 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.
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

 \cdot 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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

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· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informa	<i>ution</i>	
· 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:	Not applicable.	
· 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.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 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.

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

[·] Contact: Technical Director

[·] Abbreviations and acronyms: