Printing date 17.07.2021

CHEMICALS, INC.

Revision: 14.07.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking         1.1 Product identifier         Trade name: Nickel(U) acetylacetonate hydrate         Item number: 28-1110         CAS Number:         120156-44-7         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 Chemiculs, Inc.         7 Multiken Way         NEWBURPORT, 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         -2.1 Classification according to Regulation (EC) No 1272/2008         The substance is not classified according to the CLP regulation.         -2.2 Label elements         -2.2 Label elements         -2.3 Label elements         -2.4 Classification according to Regulation (EC) No 1272/2008 Void         -1.4 Ements         -2.5 Do not get in eyes, on skin, or on clothing. </th <th><ul> <li>1.1 Product identifie</li> <li>Trade name: Nickei</li> <li>Item number: 28-11</li> <li>CAS Number: 120156-44-7</li> <li>I.2 Relevant identific No further relevant identific No further relevant identific</li> <li>I.3 Details of the su</li> <li>Manufacturer/Supp Strem Chemicals, In 7 Mulliken Way</li> <li>NEWBURYPORT, MUSA info@strem.com</li> <li>Further information</li> <li>I.4 Emergency telep EMERGENCY: CH During normal open</li> <li>SECTION 2: Had</li> <li>2.1 Classification accorr The substance is not</li> <li>Labelling according</li> <li>Hazard pictograms</li> <li>Signal word Void</li> <li>Hazard statements</li> <li>Precautionary states</li> <li>P304+P340</li> <li>P403+P233</li> <li>P501</li> </ul></th> <th>r (II) acetylacetonate hydrate 10 ed uses of the substance or mixture and uses advised against nformation available. pplier of the safety data sheet lier: c. IA 01950 to btainable from: Technical Department hone number: EMTREC: + 1 (800) 424-9300 ing times: +1 (978) 499-1600 Zards identification The substance or mixture ding to Regulation (EC) No 1272/2008 classified according to the CLP regulation. to Regulation (EC) No 1272/2008 Void Void</th>	<ul> <li>1.1 Product identifie</li> <li>Trade name: Nickei</li> <li>Item number: 28-11</li> <li>CAS Number: 120156-44-7</li> <li>I.2 Relevant identific No further relevant identific No further relevant identific</li> <li>I.3 Details of the su</li> <li>Manufacturer/Supp Strem Chemicals, In 7 Mulliken Way</li> <li>NEWBURYPORT, MUSA info@strem.com</li> <li>Further information</li> <li>I.4 Emergency telep EMERGENCY: CH During normal open</li> <li>SECTION 2: Had</li> <li>2.1 Classification accorr The substance is not</li> <li>Labelling according</li> <li>Hazard pictograms</li> <li>Signal word Void</li> <li>Hazard statements</li> <li>Precautionary states</li> <li>P304+P340</li> <li>P403+P233</li> <li>P501</li> </ul>	r (II) acetylacetonate hydrate 10 ed uses of the substance or mixture and uses advised against nformation available. pplier of the safety data sheet lier: c. IA 01950 to btainable from: Technical Department hone number: EMTREC: + 1 (800) 424-9300 ing times: +1 (978) 499-1600 Zards identification The substance or mixture ding to Regulation (EC) No 1272/2008 classified according to the CLP regulation. to Regulation (EC) No 1272/2008 Void Void
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P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.         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/internation regulations.         • 2.3 Other hazards       Results of PBT and vPvB assessment         • PBT: Not applicable.       • vPvB: Not applicable.         • vPvB: Not applicable.       • SECTION 3: Composition/information on ingredients         • 3.1 Chemical characterisation: Substances       • CAS No. Description	P280 P305+P351+P338 P304+P340 P403+P233 P501	
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present and easy to do. Continue rinsing.         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/internation regulations.         • 2.3 Other hazards       • Results of PBT and vPvB assessment         • PBT: Not applicable.       • vPvB: Not applicable.         • vPvB: Not applicable.       • SECTION 3: Composition/information on ingredients         • 3.1 Chemical characterisation: Substances       • CAS No. Description	P304+P340 P403+P233 P501	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
P403+P233       Store in a well-ventilated place. Keep container tightly closed.         P501       Dispose of contents/container in accordance with local/regional/national/internation 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	P403+P233 P501	present and easy to do. Continue rinsing.
P501       Dispose of contents/container in accordance with local/regional/national/internation 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	P501	
<ul> <li>2.3 Other hazards         <ul> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> </li> <li>SECTION 3: Composition/information on ingredients         <ul> <li>3.1 Chemical characterisation: Substances</li> <li>CAS No. Description</li> </ul> </li> </ul>		Dispose of contents/container in accordance with local/regional/national/internation
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		eguiations.
PBT: Not applicable.     vPvB: Not applicable.  SECTION 3: Composition/information on ingredients      3.1 Chemical characterisation: Substances     CAS No. Description		vPvB assessment
<ul> <li>vPvB: Not applicable.</li> <li>SECTION 3: Composition/information on ingredients</li> <li>3.1 Chemical characterisation: Substances</li> <li>CAS No. Description</li> </ul>		
· 3.1 Chemical characterisation: Substances · CAS No. Description		
· 3.1 Chemical characterisation: Substances · CAS No. Description		
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		/ ·······

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#### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · General information: No special measures required.
- · 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: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  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: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- · 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 No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 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: 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: Not required.

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

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<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measure The usual precautionary measures are to</li> <li>Respiratory protection: Not required.</li> <li>Protection of hands:</li> </ul>	
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on conside • Material of gloves The selection of the suitable gloves does n varies from manufacturer to manufacture • Penetration time of glove material	e and resistant to the product/ the substance/ the preparation. to the glove material can be given for the product/ the preparation/ the eration of the penetration times, rates of diffusion and the degradation not only depend on the material, but also on further marks of quality and r. found out by the manufacturer of the protective gloves and has to be
<ul> <li>9.1 Information on basic physical and ch</li> <li>General Information</li> <li>Appearance:         <ul> <li>Form:</li> <li>Colour:</li> <li>Odour:</li> <li>Odour threshold:</li> </ul> </li> </ul>	nemical properties Powder Light green Odourless Not determined.
· pH-value:	Not applicable.
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Product is not flammable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not applicable.
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not applicable. Not applicable. (Contd. on page 4)
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· 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 %	
VÕC (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 Based on available data, the classification criteria are not met.
- · 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)
- $\cdot$  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.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- · 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.
- $\cdot$  Additional ecological information:
- · General notes: Not known to be hazardous to water.

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· 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** Disposal must be made according to official regulations.

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

SECTION 14: Transport informat	tion	
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: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann. Marpol and the IBC Code	<b>ex II of</b> 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.
- 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

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#### · 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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