Printing date 15.02.2022

CHEMICALS, INC.

Revision: 15.02.2022

110 1 1-	
1.1 Product ide	-
Trade name: <u>N</u>	ickel(II) tetrafluoroborate hexahydrate, 99%
Item number: 9	93-2841
CAS Number:	
15684-36-3 1 2 Relevant id	entified uses of the substance or mixture and uses advised against
	vant information available.
1.3 Details of th	he supplier of the safety data sheet
Manufacturer/	
Strem Chemical	
7 Mulliken Way NEWBURYPOI	
USA	(1, MA 01950
info@strem.com	n
Further inform	ation obtainable from: Technical Department
1.4 Emergency	telephone number:
	CHEMTREC: + 1 (800) 424-9300
During normal	opening times: +1 (978) 499-1600
<b>SECTION 2</b>	: Hazards identification
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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.
- + 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: Store away from foodstuffs.
- 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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# Safety data sheet according to 1907/2006/EC, Article 31

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chemical mixture. Selection of the glove material on consideration of the Material of gloves The selection of the suitable gloves does not only deper- varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by observed. Eye protection: Safety glasses 9.1 Information on basic physical and chemical proper- General Information Appearance: Form: Colour: Colour: Odoures: Odour threshold: PH-value: Not application felash point: Flash point: Not application Flash point: Not application Melting point/freezing point: Initial boiling point and boiling range: Undetermine Initial boiling point and boiling range: Not application Flash point: Not application Flash point: Not application Meltermine Initian temperature: Not determine Auto-ignition temperature: Not determine Cauce doe Explosion limits: Lower: Not determine Not de	
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Lower: Not determin Upper: Not determin	
Lower: Not determin Upper: Not determin	s not present an explosion hazard.
••	not present an explosion hazard.
T7 . 1. 1.	ed.
Vapour pressure: Not applicat	ed.
• <b>Density at 20 °C:</b> 1.47 g/cm <sup>3</sup>	ed. ed.
• Relative density Not determin	ed. ed.
Vapour density Not applical	ed. ed. le.
• Evaporation rate Not applicat	ed. le. le.



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		(Contd. of page
· 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)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- 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.
- $\cdot$  **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.

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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.

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	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.
- 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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# CHEMICALS, INC.

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

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#### Trade name: Nickel(II) tetrafluoroborate hexahydrate, 99%

#### · 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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