

ALFAA39439

# Potassium hexafluoronickelate (IV)

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明:	六氟镍酸钾
Product Description:	Potassium hexafluoronickelate (IV)
Cat No. :	<b>39439</b>
Synonyms	Dipotassium hexafluoronickelate (IV)
CAS No	17218-47-2
Molecular Formula	F6 K2 Ni
Supplier	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
Emergency Telephone Number	For information <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US:</b> 001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US:</b> 001-800-424-9300 / <b>Europe:</b> 001-703-527-3887
E-mail address	begel.sdsdesk@thermofisher.com
Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

# **SECTION 2. HAZARD IDENTIFICATION**

<b>Physical State</b>
Powder Solid

Appearance Reddish violet Odor No information available

**Emergency Overview** 

Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer.

## Classification of the substance or mixture

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Carcinogenicity	Category 1A

Label Elements

Potassium hexafluoronickelate (IV)



# Signal Word

Danger

## Hazard Statements

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 - May cause cancer

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled

## **Precautionary Statements**

## Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

P284 - In case of inadequate ventilation wear respiratory protection

## Response

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P362 + P364 - Take off contaminated clothing and wash it before reuse

Storage

P403 - Store in a well-ventilated place

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## Physical and Chemical Hazards

None identified.

## **Health Hazards**

Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer.

## Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Will likely be mobile in the environment due to its water solubility. The product is water soluble, and may spread in water systems.

This product does not contain any known or suspected endocrine disruptors.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Potassium nickel(IV) fluoride	17218-47-2	99

# SECTION 4. FIRST AID MEASURES

## Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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## Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

## Inhalation

Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.

## Ingestion

Call a physician immediately. Clean mouth with water.

### Most important symptoms and effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

## Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

### Notes to Physician

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO 2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Chemical foam.

## Extinguishing media which must not be used for safety reasons

No information available.

## **Specific Hazards Arising from the Chemical**

Non-combustible.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions

Ensure adequate ventilation.

## **Environmental Precautions**

See Section 12 for additional Ecological Information. Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

Refer to protective measures listed in Sections 8 and 13.

# **SECTION 7. HANDLING AND STORAGE**

### Handling

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical

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assistance. Handle product only in closed system or provide appropriate exhaust ventilation.

#### Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

#### Specific Use(s)

Use in laboratories

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control Parameters**

Component	ACGIH TLV	OSHA PEL	NIOSH	The United Kingdom	European Union
Potassium nickel(IV) fluoride			IDLH: 10 mg/m <sup>3</sup>	-	
			TWA: 0.015 mg/m <sup>3</sup>		

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust MDHS42/2 Nickel and inorganic compounds of nickel in air (except nickel carbonyl) Laboratory method using flame atomic absorption spectrometry or electrothermal atomic absorption spectrometry

## Exposure Controls

## Engineering Measures

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

#### Personal protective equipment

Eye Protection	Goggles (European standard - EN 166)			
Hand Protection	Protectiv	e gloves		
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	EU standard EN 374	Glove comments (minimum requirement)

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Particle filtering: EN149:2001

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## When RPE is used a face piece Fit Test should be conducted

# Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Physical State	Reddish violet Powder Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available No information available No data available No data available No information available Not applicable No information available No data available	<b>Method -</b> No information available Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity	No data available Not applicable No data available No data available hydrolyses No information available <b>er)</b> No data available No data available Not applicable	Solid
Explosive Properties Oxidizing Properties Molecular Formula	No information available No information available F6 K2 Ni	
Molecular Weight	250.9	

## SECTION 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous Reactions Hazardous Polymerization	No information available. Hazardous polymerization does not occur.
Conditions to Avoid	Incompatible products.
Materials to avoid	Strong acids.

Hazardous Decomposition Products Burning produces obnoxious and toxic fumes. Gaseous hydrogen fluoride (HF). Nickel oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

## Product Information

(a) acute toxicity;

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Persistence and DegradabilityProduct contains heavy metals. Discharge into the environment must be avoided. Special pre-treatment is necessary based on information available, May persist. Not relevant for inorganic substances. Contains substances known to be hazardous to the environment or not degradable in wa water treatment plantBioaccumulative PotentialMay have some potential to bioaccumulate					
(d) respiratory or skin sensitization; Respiratory       Category 1 Gategory 1 May cause sensitization by skin contact         (e) germ cell mutagenicity;       No data available         (f) carcinogenicity;       Category 1A There are no known carcinogenic chemicals in this product         (g) reproductive toxicity;       No data available         (h) STOT-single exposure;       No data available         (h) STOT-repeated exposure;       No data available         (if) aspiration hazard;       Not applicable Solid         (j) aspiration hazard;       Not applicable Solid         Symptoms / effects, both acute and Solid       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingli of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing         Ecotoxicity effects       Do not empty into drains. May cause long-term adverse effects in the environment. Do no allow material to contaminate ground water system.         Persistence Degradability       Product contains heavy metals, Discharge into the environment must be avoided. Specia information available. May persist. Not relevant for inorganic substances. Nown to be hazardous to the environment or not degradable in wa water treatment plants.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       The product is water solubile, and may spread in water systems. Will likely be mobile in t environment due to its water solubility Highly mobile in solis	(b) skin corrosion/irritation;	No data available			
Respiratory Skin       Category 1 May cause sensitization by skin contact         (e) gern cell mutagenicity;       No data available         (f) carcinogenicity;       Category 1A There are no known carcinogenic chemicals in this product         (g) reproductive toxicity;       No data available         (h) STOT-single exposure;       No data available         (h) STOT-repeated exposure;       No data available         (if) STOT-repeated exposure;       No data available         (j) aspiration hazard;       No information available.         (j) aspiration hazard;       Not applicable Solid         Other Adverse Effects       The toxicological properties have not been fully investigated.         Symptoms / effects,both acute and Symptoms / effects,both acute and allow material to contaminate ground water system.         Persistence and Degradability Degradability       Product contains heavy metals. Discharge into the environment must be avoided. Specia pre-treatment is necessary based on information available. May persist. Not relevant for inorganic substances. Degradability         Persistence Degradability Degradability Degradability Degradability Degradability Degradability Degradability Degradability Degradability Degradability Degradability Not relevant for inorganic substances. Degradability Degradability Not relevant for inorganic substances. Degradability Not relevant for inorganic substances. Degradability Not relevant for inorganic substances. Degradability Not previsit. Not relevant for inorganic substances. Degradability Not prevential       May have some	(c) serious eye damage/irritation;	No data available			
(e) germ cell mutagenicity;       No data available         (f) carcinogenicity;       Category 1A         There are no known carcinogenic chemicals in this product         (g) reproductive toxicity;       No data available         (h) STOT-single exposure;       No data available         (i) STOT-repeated exposure;       No data available         (ii) STOT-repeated exposure;       No data available         (ii) STOT-repeated exposure;       No data available         (ii) appiration hazard;       No tapplicable         Solid       Solid         Other Adverse Effects       The toxicological properties have not been fully investigated.         Symptoms / effects,both acute and delayed       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingli of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing or the environment. Do no allow material to contaminate ground water system.         Persistence and Degradability       Product contains heavy metals. Discharge into the environment or not degradable in wa water treatment is necessary         Persistence bergradability       Product contains heavy metals. Discharge into the environment or not degradable in wa water treatment plants.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       The product is water solub	Respiratory	Category 1 Category 1			
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(h) STOT-single exposure;       No data available         (i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       Not applicable Solid         Other Adverse Effects       The toxicological properties have not been fully investigated.         Symptoms / effects,both acute and delayed       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingli of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing         Ecotoxicity effects       Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.         Persistence       Dased on information available, May persist.         Degradability       Product contains heavy metals. Discharge into the environment must be avoided. Specia pre-treatment is necessary Persistence         Degradability       Product contains heavy metals. Discharge into the environment or not degradable in wa water treatment plant.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       The product is water soluble, and may spread in water systems. Will likely be mobile in th environment due to its water solubility. Highly mobile in solls	(f) carcinogenicity;				
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delayed       of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing         SECTION 12. ECOLOGICAL INFORMATION         Ecotoxicity effects       Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.         Persistence and Degradability       Product contains heavy metals. Discharge into the environment must be avoided. Specia pre-treatment is necessary based on information available, May persist. Not relevant for inorganic substances. Contains substances known to be hazardous to the environment or not degradable in wa water treatment plant.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils	Other Adverse Effects	The toxicological properties have not been fully investigated.			
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Mobility in soil         The product is water soluble, and may spread in water systems         Will likely be mobile in the environment due to its water solubility	Persistence Degradability Degradation in sewage	based on information available, May persist. Not relevant for inorganic substances. Contains substances known to be hazardous to the environment or not degradable in waste			
environment due to its water solubility Highly mobile in soils	Bioaccumulative Potential	May have some potential to bioaccumulate			
Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors	Mobility in soil	The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility Highly mobile in soils			
	Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors			

# Potassium hexafluoronickelate (IV)

Persistent Organic Pollutant Ozone Depletion Potential	This product does not contain any known or suspected substance This product does not contain any known or suspected substance	
	SECTION 13. DISPOSAL CONSIDERATIONS	
Waste from Residues/Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.	
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.	
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.	

## **SECTION 14. TRANSPORT INFORMATION**

# Road and Rail Transport

N3288 oxic solid, inorganic, n.o.s. 1

## IMDG/IMO

UN-No	UN3288
Proper Shipping Name	Toxic solid, inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III

## <u>IATA</u>

UN-No	UN3288
Proper Shipping Name	Toxic solid, inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III

Special Precautions for User

No special precautions required

# **SECTION 15. REGULATORY INFORMATION**

### International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

Component	The Inventory of Hazardous Chemicals (2015 Edition)	•	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Potassium nickel(IV) fluoride	-	-	х	-	-	-	-	-	-		-	-

## **National Regulations**

Potassium hexafluoronickelate (IV)

## **SECTION 16. OTHER INFORMATION**

Prepared By	Health, Safety and Environmental Department
Revision Date	07-Mar-2024
Revision Summary	New emergency telephone response service provider.

## **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

## Legend

CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventor Substances/EU List of Notified Chemi- PICCS - Philippines Inventory of Cher IECSC - Chinese Inventory of Existing KECL - Korean Existing and Evaluate	cal Substances nicals and Chemical Substances Chemical Substances	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit ACGIH - American Conference of Gov DNEL - Derived No Effect Level RPE - Respiratory Protective Equipme LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentr PBT - Persistent, Bioaccumulative, To	ation	<ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>PNEC - Predicted No Effect Concentration</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul>

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

 $\ensuremath{\text{OECD}}$  - Organisation for Economic Co-operation and Development  $\ensuremath{\text{BCF}}$  - Bioconcentration factor

### Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of Safety Data Sheet**