AK Scientific, Inc.

Safety Data Sheet (United States) Nickel(II) tetrafluoroborate hexahydrate

1.Identification	
Product name:	Nickel(II) tetrafluoroborate hexahydrate
Catalog#:	1793CB
IUPAC name:	nickel(2+);ditetrafluoroborate;hexahydrate
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Skin Corr. (category 1B) Eye Dam. (category 1) Carc. (category 1A)

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
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Precautionary statement(s):

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for
	breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
P308+P313	IF EXPOSED or concerned: Get medical advice/attention.
P310	Immediately call a poison center or doctor.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

none

3.Composition/Information on Ingredients	
Synonyms:	Not available.
CAS#:	15684-36-3
Purity:	98%
EC:	Not available.

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately. **Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. **Specific hazards arising from the chemical:** Nickel oxides, Boron oxides, Hydrogen fluoride. **Advice for firefighters:** As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed

container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL:Not available.NIOSH REL:Not available.ACGIH TLV:Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection	
Eyes:	Not Available.
Hands:	Not Available.
Skin and body:	Not Available.
Respiratory:	Not Available.

9. Physical and Chemical Properties	
Physical State:	Solid
Molecular Formula:	Ni(BF4)2.6H2O
Molecular Weight:	340.4
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	1.5
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

10. Stability and Reactivity

Reactivity:
Chemical stability:
Possibility of hazardous reactions:
Conditions to avoid:
Incompatible materials:
Hazardous decomposition products:

Not available.

Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents. Nickel oxides, Boron oxides, Hydrogen fluoride.

11. Toxicological Information

RTECS# Acute toxicity: Routes of exposure: Symptoms related to the physical,chemical and Not available. Not available. Inhalation,eye contact,skin contact,ingestion. Skin contact may result in inflammation toxicological characteristics:

characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Carcinogenicity

IARC:Not classified.NTP:Not listed.OSHA:Not Available..Acute toxic effects:Inflammation of the eye is characterized by redness, watering, and itching. Skin
inflammation is characterized by itching, scaling, reddening, or, occasionally,

blistering.

12. Ecological Information

Not available.
Not available.
Not available.
Not available.
Not available.

13. Disposal Considerations

Disposal of waste: Disposal of packaging:

14. Transportation Information

DOT (United States)

UN number:UN3077Proper shipping name:Environmentally hazardous substance, solid, n.o.s. (Nickel(II) tetrafluoroborate
hexahydrate)Transport hazard class:9;MiscellaneousPacking group:IIIIATAUN3077VIN Number:UN3077Proper shipping name:Environmentally hazardous substance, solid, n.o.s. (Nickel(II) tetrafluoroborate
hexahydrate)Transport hazard class:9;MiscellaneousTransport hazard class:9;MiscellaneousPacking group:III

Not listed

Not listed

15. Regulatory Information

TSCA (United States)

Not Available.

California Proposition 65: NFPA Rating:

Not Available.. Health: Flammability: Instability:

Not available. Not available. Not available.

16. Additional Information

Revision Date: 06/14/2021 Printed Date: 06/14/2021

The information above is believed to be accurate and represents the best information currently available

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