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# SAFETY DATA SHEET

### Section 1. Identification

Tetrakis(trifluorophosphine)nickel **Product Name:** 

**Product Type:** Liquid

13859-65-9 **CAS Number: Product Number:** NI9659

**Recommended Use:** Laboratory chemicals, synthesis of substances.

This product is being supplied under the TSCA R&D Exemption (40 **Uses Advised Against:** 

> CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless

appropriate consent is granted in writing by Ereztech LLC.

**Product Manufacturer:** Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

**Product Information:** (888) 658-1221

CHEMTREC: 1-800-424-9300 (USA); In Case of an Emergency:

> +1 703-527-3887 (International); CCN836180 \*\*\* Contact manufacturer for all non-emergency calls.

### Section 2. Hazards Identification

Appearance/Odor: Colorless heavy liquid, odor not determined.

Classification: SKIN CORROSION/IRRITATION - Category 1B, H314

SENSITIZATION, SKIN – Category 1, H317

SENSITIZATION, RESPIRATORY – Category 1, H334

**GHS Label Elements** 

**Hazard Pictograms:** 



**DANGER Signal Word:** 

**Hazard Statements:** H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

### Section 2. Hazards Identification

**Hazard Statements:** H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

**Precautionary Statements** 

Response:

Storage:

Disposal:

**Prevention:** P233: Keep container tightly closed.

P260: Do not breathe sprays/mists/vapors/gases.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or with adequate ventilation.

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: In case of inadequate ventilation wear respiratory protection.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P361 + P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

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

P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316: Get emergency medical help immediately.

P333 + P317: If skin irritation or rash occurs: Get medical help.

P342 + P316: If experiencing respiratory symptoms: Get emergency medical help immediately.

P362 + P364: Take off contaminated clothing and wash it before

P363: Wash contaminated clothing before reuse.

P403: Store in a well-ventilated place.

P405: Store locked up.

P501: Dispose of contents/ container in accordance with

national/federal, state and local regulations.

**OSHA/HCS Status:** This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

None identified.

**Hazards Not Otherwise** Classified (HNOC):

### Section 3. Composition/Information on Ingredients

: Mono-constituent. Substance Type

Ereztech N19659 Page 2 of 14 Revision: 1.20

### Section 3. Composition/Information on Ingredients

Synonyms : Tetrakis(trifluorophosphane)nickel; phosphorus trifluoride-

nickel; Ni(PF3)4

Formula :  $F_{12}NiP_4$ 

 Molecular Weight
 : 410.62 g/mol.

 CAS-No.
 : 13859-65-9

 EC Number
 : 237-597-4

Component Name	%	CAS Number
Tetrakis(trifluorophosphine)nickel	≥ 99	13859-65-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First Aid Measures

#### **Description of Necessary First Aid Measures**

General Advice: Move out of dangerous area. Get emergency medical help immediately. Show

this safety data sheet to the doctor in attendance. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Rinse for a minimum of 15 minutes. Check for and remove any contact lenses after initial rinse period and continue rinsing for an additional 15 minutes. Keep eyes wide open during rinsing process. Get emergency medical

help immediately.

**Skin Contact:** Remove all contaminated clothing and shoes. Wash off contaminated skin with

plenty of water for a minimum of 15 minutes. Thoroughly clean and dry

contaminated clothing before reuse. Destroy/discard contaminated shoes. In the

event of complaints or symptoms, avoid further exposure. Get emergency

medical help immediately.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Rescuer should

wear a mask or self-contained breathing apparatus if it is suspected that fumes are still present. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Do not use the mouth-to-mouth method of resuscitation if victim ingested or inhaled the product; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get emergency

medical help immediately.

### Section 4. First Aid Measures

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Remove dentures if any. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If person is not breathing, if breathing is irregular or if respiratory arrest occurs, see the "Inhalation" first aid measures noted above. Get emergency medical help

immediately.

Most Important Symptoms/Effects, Acute and Delayed Potential Acute Health Effects

**Eye Contact:** Causes serious eye damage. Symptoms may include watering, redness, pain,

swelling of the eyelids, inability to keep eye open, blurred vison and

temporary/permanent loss of vision.

**Inhalation:** Product is extremely corrosive to mucous membranes and tissues of the upper

respiratory tract. Symptoms may include a burning sensation, coughing, coughing up blood (hemoptysis), wheezing, laryngitis, shortness of breath/difficulty in breathing (dyspnea), blueness (cyanosis) of lips and skin, nausea,

headaches, disorientation, general weakness and loss of consciousness.

**Skin Contact:** Skin contact with this product may be expected to cause (severe) chemical

burns. Symptoms may include reddening of skin, a burning or itching sensation,

pain, blistering and tissue necrosis.

Ingestion: Ingestion may be expected to result in burns of the mouth and throat and

potential perforation of the esophagus and stomach. Symptoms may include pain when swallowing (odynophagia), difficulty swallowing (dysphagia), fever, nausea, recurrent vomiting (emesis) and vomiting of blood (hematemesis). Severe burns which may be accompanied by perforation of the esophagus and stomach may present additional symptoms of abdominal pain/rigidity, chest

and/or back pain.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician: Treat symptomatically.

Specific Treatments: No specific treatment.

**Protection of First Responders:** No action taken shall be taken involving any personal risk

without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See Toxicological Information (Section 11)** 

### Section 5. Fire Fighting Measures

General Hazards: None identified.

Suitable Extinguishing Media: Use water spray (fog), alcohol-resistant foam, dry chemical or

carbon dioxide.

**Unsuitable Extinguishing Media:** None identified.

### Section 5. Fire Fighting Measures

Unusual Fire and Explosion Hazards:

None identified.

**Product of Combustion:** 

Decomposition products include hydrogen fluoride, trifluorophosphine and oxides of phosphorus and nickel. Irritating fumes and organic acid vapors may be generated during exposure to elevated temperatures or open flame.

**Protection of Firefighters:** 

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Prevent contact with skin or eyes. Prevent the formation and

inhalation of sprays, mists, vapors and gases.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in a positive pressure mode.

### Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Prevent the formation and inhalation of sprays, mists, vapors and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

For Emergency Responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

**Environmental Precautions:** 

Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for Containment** 

General:

Stop leak/spillage and move containers from spill area if safe to do so. Prevent the formation and inhalation of sprays and mists. Dispose of collected spillage in accordance with federal, state and local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilled product.

### Section 6. Accidental Release Measures

Methods for Containment (cont.)

Small Spill: Collect spillage with a dry, absorbent material (e.g. sand, earth,

vermiculite or diatomaceous earth) and place in dry, sealed

container for disposal.

Large Spill: Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and

collect spillage with a dry, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed

container for disposal.

Note: see Section 1 for emergency contact information and

Section 13 for waste disposal.

### Section 7. Handling and Storage

**Precautions:** 

Product is moisture sensitive; handle under a dry, inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep container tightly sealed. Prevent contact with skin, eyes and clothing. Prevent the formation and inhalation of sprays, mists, vapors and gases. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.

**Protective Measures:** 

Put on appropriate personal protective equipment (see Section 8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**General Occupational Hygiene:** 

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Safe Storage Conditions:

Product is moisture sensitive; store under an inert gas.

Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store in original container protected from direct sunlight in a dry and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

### Section 8. Exposure Controls/Personal Protection

#### **Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

#### **Occupational Exposure Limits**

Components	CAS-No.	List	Туре	Value
Nickel, soluble compounds as Ni	7440-02-0	ACGIH	TLV	0.1 mg/m <sup>3</sup> TWA (Inhalation)
		NIOSH	REL	0.015 mg/m <sup>3</sup> TWA – 10 hrs.
		OSHA	PEL	0.1 mg/m³ TWA

#### **Engineering Controls:**

Properly operating explosion-proof, chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

#### **Environmental Exposure Controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual Protection Measures**

**Hygiene Measures:** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Prevent the formation and inhalation of sprays, mists, vapors and gases. Prevent contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/Face Protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to mists, vapors or sprays. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Ereztech N19659 Page 7 of 14 Revision: 1.20

### Section 8. Exposure Controls/Personal Protection

**Skin Protection** 

**Hand Protection:** 

Other Skin Protection:

**Respiratory Protection:** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves. For full contact, wear Neoprene or nitrile rubber gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9. Physical and Chemical Properties

Physical State: Liquid.
Color: Colorless.

Odor:

pH:

No data available.

No data available.

Melting Point:

- 55 °C (- 48.3 °F).

<u>Ereztech NI9659</u> Page 8 of 14 Revision: 1.20

### Section 9. Physical and Chemical Properties

**Boiling Point:** 70.6 °C (159.1 °F). **Flash Point:** > 200 °C (392 °F).

Specific Gravity: 1.8 g/cm<sup>3</sup>.

Vapor Pressure:No data available.Vapor Density:No data available.Water Solubility:No data available.

**Sensitivity:** Product decomposes in acidic/alkaline environments.

Product decomposes at 180 °C to nickel and

trifluorophosphine.

## Section 10. Stability and Reactivity

**Reactivity:** Product is moisture sensitive.

Chemical Stability: Product is stable when stored under a dry, inert atmosphere and away from heat. Nitrogen containing less

than 5 ppm each moisture and air is recommended.

**Conditions to Avoid:** Exposure to water/moisture and elevated temperatures.

Strong alkaline environment.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.
Hazardous decomposition products formed under fire conditions: hydrogen fluoride, trifluorophosphine and oxides of phosphorus and nickel. Irritating fumes and potentially toxic gases may be generated during exposure to elevated temperatures or open flame. In the event of a

fire: see Section 5.

Possibility of Hazardous Reactions: Under normal conditions of storage and use noted above,

hazardous reactions will not occur. Hazardous reactions or instability may occur under certain conditions of

storage or use.

### Section 11. Toxicological Information

**Information on Toxicological Effects** 

**Incompatible Materials:** 

Acute Toxicity : No specific data.

Irritation/Corrosion : Product is corrosive to the skin and eye tissues. Nickel

and nickel compounds may cause a form of dermatitis

known as nickel itch.

**Sensitization**: Product may cause skin or respiratory sensitization.

### Section 11. Toxicological Information

**Germ Cell Mutagenicity** 

**Carcinogenicity** 

**IARC** 

ACGIH

**NTP** 

**OSHA** 

Reproductive Toxicity

Teratogenicity

Specific Target Organ Toxicity (Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure)

**Aspiration Hazard** 

Information on the Likely Routes of Exposure

**Additional Information** 

: No specific data.

: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

: No specific data.

No specific data available.No specific data available.

: No specific data available.

: No specific data available.

: Common routes of exposure: inhalation, dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking or eating after handling product without washing hands or using hand protection).

: Nickel and nickel compounds may cause intestinal disorders, convulsions and asphyxia.

To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

## Section 12. Ecological Information

**Numerical Measures of Toxicity** 

Persistence and Degradability

**Biodegradability** 

**Bioaccumulative Potential** 

: No specific data available.

: No specific data available.

: No specific data available.

### Section 12. Ecological Information

Mobility in Soil

: No specific data available.

Results of PBT and vPvB Assessment

: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted.

**Endocrine Disrupting Properties** 

: No specific data available.

**Other Adverse Effects** 

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13. Disposal Considerations

Waste Treatment Methods Product

: Dispose of in accordance with local, state, and federal (use national and local for EU) regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

**Contaminated Packaging** 

: Empty containers retain product residue (dusts, liquids, vapors and gases) and can be dangerous. Dispose of as unused product.

### Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN1760	UN1760	UN1760
UN Proper Shipping Name	Corrosive liquids, n.o.s. (Tetrakis (trifluorophosphine) nickel)	CORROSIVE LIQUID, N.O.S. (Tetrakis (trifluorophosphine) nickel)	Corrosive liquid, n.o.s. (Tetrakis (trifluorophosphine) nickel)
Transport Hazard Classes	8	8	8
Packing Group	П	П	II
<b>Environmental Hazards</b>	-	-	-
Additional Information	-	EMS-No: F-A, S-B	-

**Special Precautions for User** 

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable - this cargo is not intended to be carried in bulk.

Ereztech NI9659 Page 11 of 14 Revision: 1.20

### Section 15. Regulatory Information

#### TSCA (Toxic Substance Control Act):

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

#### **SARA 302 Components**

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 302 EHS TPQ.

#### **SARA 304 Components**

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 304 RQ.

#### SARA 311/312 Hazards

Health Hazard (Skin Corrosion or Irritation; Respiratory or Skin Sensitization).

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **CERCLA Reportable Quantity**

This product does not contain any chemical components with known CAS numbers with a CERCLA Reportable Quantity.

#### **Massachusetts Right to Know Components**

No components are subject to Massachusetts Right to Know Act.

#### Pennsylvania Right to Know Components

No components are subject to Pennsylvania Right to Know Act.

#### **New Jersey Right to Know Components**

No components are subject to New Jersey Right to Know Act.

#### California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Ereztech N19659 Page 12 of 14 Revision: 1.20

### Section 16. Other Information

#### National Fire Protection Association (U.S.A.)



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Copyright © 2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **HMIS Rating**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

#### **History**

Date of Issue/Date of Revision : 11/13/2024. **Date of Previous Issue** : 9/13/2023. : None available. References

#### Abbreviations and Acronyms

ACGIH : American Conference of Governmental Industrial Hygienists. ATF Acute Toxicity Estimate (per Chapter 3.1 of GHS 10 standard).

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

CLP : Classification, Labeling and Packaging (European Union (EU)).

DOT : US Department of Transportation.

EC No. : The EC Inventory (EINECS, ELINCS and the NLP-list is the source of the seven digit

EC number, an identifier of substances commercially available with the EU (European

: European Inventory of Existing Commercial Chemical Substances. **EINECS** 

: Extremely Hazardous Substance. **EHS** 

**ELINCS** European List of Notified Chemical Substances.

### Section 16. Other Information

#### Abbreviations and Acronyms (cont.)

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS : Hazardous Materials Identification System.

HNOC : Hazards Not Otherwise Classified.

IARC : International Agency for Research on Cancer.

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulations by the "International Air Transport Association"

(IATA).

IDLH : Immediately Dangerous to Life or Health (US National Institute for Occupation Health

and Safety (NIOSH)).

IMDG : International Maritime Code for Dangerous Goods.

NFPA : National Fire Protection Association.

NIOSH : National Institute of Occupational Safety and Health.

NTP : National Toxicology Program.

OECD : Organization for Economic Co-Operation and Development.

OEL : Occupational Exposure Limit.

OSHA : Occupational Safety and Health Administration.

PBT : Persistent Bioaccumulative and Toxic.

PEL : Permissible Exposure Limits.
REL : Recommended Exposure Limits.

RQ : Reportable Quantity.

SARA : Superfund Amendments and Reauthorization Act.

STEL (ST) : Short Term Exposure Limit (ACGIH/NIOSH)

STOT : Specific Target Organ Toxicity.

TLV : Threshold Limit Values (ACGIH).

TPQ : Threshold Planning Quantity.

TWA : Time Weighted Average.

VOC : Volatile Organic Compound.

vPvB : Very Persistent and Very Bioaccumulative.

#### **Disclaimer**

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.