

#### Revision number: 2 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: (Hydrazinocarbonyl)ferrocene [for HPLC Labeling] H0941

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

Product use: Restrictions on use:

## Company:

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# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

# SAFETY DATA SHEET

Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** 

TCI America Environmental Health Safety and Security +1- 503-286-7624

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

+1-503-286-7624

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Synonyms: Substance (Hydrazinocarbonyl)ferrocene [for HPLC Labeling] >95.0%(HPLC)(T) 12153-28-5 244.08 C<sub>11</sub>H<sub>12</sub>FeN<sub>2</sub>O Ferrocenecarbohydrazide

4. FIRST-AID MEASURES			
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take presented to be presented to be available.		
Skin contact:	take precautions to protect themselves. If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warr and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
Ingestion:			
symptoms/effects:			
Acute: Delayed:	Redness. No data available		
mmediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, $CO_2$ , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.		
Specific hazards arising from the chem	nical		
lazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Metallic oxides Closed containers may explode from heat of a fire.		
Special precautions for fire-fighters: Jse water spray or fog; do not use straigh neated. Move containers from fire area if Special protective equipment for fire-fig			
Near positive pressure self-contained bre	earthing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may		
5. ACCIDENTAL RELEASE MEASU	JRES		
Personal precautions:			
	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.		
Personal protective equipment:	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).		

# Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions: Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined

areas; dike if needed.

prolonged storage periods. Store under inert gas (e.g. Argon).

Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** No data available

#### Appropriate engineering controls:

Storage incompatibilities:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

#### Personal protective equipment

**Respiratory protection:** 

Hand protection:

Eye protection:

Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Nitrile gloves. Safety glasses. Skin and body protection: Lab coat.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Yellow - Yellow red No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data ava Upper: No data ava	

Solubility(ies):

Soluble: Methanol

## 10. STABILITY AND REACTIVITY

**Reactivity: Chemical Stability:** Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: **Hazardous Decomposition Products:**  Not Available. Air sensitive. No hazardous reactivity has been reported. Air sensitive. Exposure to air. Strong oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

(Hydrazinocarbonyl)ferrocene [for HPLC Labeling] Acute Toxicity:	TCI AMERICA	Page 4 of 5	
No data available Skin corrosion/irritation: No data available			
Serious eye damage/irritation:			
Respiratory or skin sensitization:			
Germ cell mutagenicity: No data available			
Carcinogenicity:			
No data available			
IARC: No data available	NTP: No data available OSHA: No d	data available	
<b>Reproductive toxicity:</b> No data available			
or dry skin. Eye contact may result in redness Potential Health Effects:		act may result in redness, pain	
Skin and eye contact may result in irritation. Target organ(s):	No data available		
12. ECOLOGICAL INFORMATION			
Ecotoxicity			
Fish: Crustacea:	No data available No data available		
Algae:	No data available		
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc):	No data available No data available No data available No data available		
Henry's Law: constant (PaM³/mol)	No data available		
12 DISPOSAL CONSIDERATIONS			
13. DISPOSAL CONSIDERATIONS Disposal of product: Disposal of container: Other considerations:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.		
14. TRANSPORT INFORMATION			
DOT (US)	Non-hazardous for transportation.		
ΙΑΤΑ	Non-hazardous for transportation.		
IMDG	Non-hazardous for transportation.		

# 15. REGULATORY INFORMATION

# Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### **US Federal Regulations**

**CERCLA Hazardous substance and Reportable Quantity:** 

SARA 313:	Not Listed
SARA 302:	Not Listed

## **State Regulations**

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

#### **Other Information**

#### **NFPA Rating:**

# International Inventories WHMIS hazard class:

D2B: Materials causing other toxic effects. (Toxic)

### **16. OTHER INFORMATION**

# Revision date: 10/06/2014

**Revision number: 2** 

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HMIS Classification:** 

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