# Heegermaterials

# **SAFETY DATA SHEET**

Revision Date 21-Feb-2020 **Revision Number** 2

# 1. Identification

Lutetium(III) nitrate hydrate **Product Name** 

100641-16-5 CAS-No

**Synonyms** No information available

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Heeger Materials Inc. 230 Steele St Denver CO 80206 **United States** 

Tel: 925-385-8104

Email: sales@heegermaterials.com www.heegermaterials.com

**Emergency Telephone Number** 

Ser Mate During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660 After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Category 2 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

# Label Elements

# Signal Word

Danger

# **Hazard Statements**

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation



# **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

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/attention

# Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# terials Inc 3. Composition/Information on Ingredients

Component	CAS-No	Weight %		
Lutetium(III) nitrate hydrate	100641-16-5	<=100		

# 4. First-aid measures

If symptoms persist, call a physician. **General Advice** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get **Eye Contact** 

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

**Notes to Physician** Treat symptomatically

# 5. Fire-fighting measures

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available No information available Method -

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available Lower No data available

**Oxidizing Properties** Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

# Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

# **Hazardous Combustion Products**

None known.

# **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.

NFPA

Instability Health Physical hazards **Flammability** 2 0 - OX

# 6. Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust **Personal Precautions** 

formation.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological

Information.

Up

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into

suitable containers for disposal.

# 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Keep away from clothing and other combustible materials.

Store under an inert atmosphere. Protect from moisture. Keep containers tightly closed in a Storage

dry, cool and well-ventilated place. Do not store near combustible materials.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that evewash stations **Engineering Measures** 

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

# 9. Physical and chemical properties

**Physical State Appearance** 

eger Ma Odor

**Odor Threshold** Ηq

Melting Point/Range

**Boiling Point/Range Flash Point Evaporation Rate** Flammability (solid,gas)

Flammability or explosive limits

Upper Lower **Vapor Pressure Vapor Density Specific Gravity** Solubility

Partition coefficient: n-octanol/water

**Autoignition Temperature Decomposition Temperature** 

**Viscosity** 

Molecular Formula **Molecular Weight** 

Solid Crystalline

White Odorless

No information available No information available No data available

No information available No information available

Not applicable

No information available

No data available

No data available

No information available

Not applicable

No information available No information available Inc

No data available

No information available

No information available

Not applicable LuN3 O9. xH2 O 360.98(anhy)

# 10. Stability and reactivity

Yes **Reactive Hazard** 

Stability Hygroscopic. Oxidizer: Contact with combustible/organic material may cause fire.

**Conditions to Avoid** Exposure to moist air or water. Incompatible products. Excess heat. Combustible material.

Strong reducing agents, Combustible material **Incompatible Materials** 

Hazardous Decomposition Products None under normal use conditions

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

No information available Sensitization

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Γ	Lutetium(III) nitrate	100641-16-5	Not listed				
1	hydrate						

**Mutagenic Effects** No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

Respiratory system STOT - single exposure

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

No information available

erials 1 The toxicological properties have not been fully investigated. Other Adverse Effects

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

**Endocrine Disruptor Information** 

Soluble in water Persistence is unlikely based on information available. Persistence and Degradability

**Bioaccumulation/ Accumulation** No information available.

Will likely be mobile in the environment due to its water solubility. **Mobility** 

# 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a

> hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN1477 **UN-No** 

#### Lutetium(III) nitrate hydrate

**Proper Shipping Name** NITRATES, INORGANIC, N.O.S. **Technical Name** (Lutetium(III) nitrate hydrate)

**Hazard Class Packing Group** Ш

TDG

**UN-No UN1477** 

**Proper Shipping Name** NITRATES, INORGANIC, N.O.S.

**Hazard Class** 5.1 **Packing Group** Ш

**IATA** 

**UN-No** UN1477

**Proper Shipping Name** NITRATES, INORGANIC, N.O.S.

**Hazard Class Packing Group** Ш

IMDG/IMO

**UN-No** UN1477

NITRATES, INORGANIC, N.O.S. **Proper Shipping Name** 

**Hazard Class** 5.1 **Packing Group** Ш

# 15. Regulatory information

# United States of America Inventory

Component CAS-No		TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory	
1/1/2			Active/Inactive	Flags	
Lutetium(III) nitrate hydrate	100641-16-5	-	-	-	

Leaend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

Taterials Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Lutetium(III) nitrate hydrate	100641-16-5	-	-	-	-	-		-	-

# U.S. Federal Regulations

**SARA 313** Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)** Not applicable Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

Not applicable **CERCLA** 

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

# **U.S. Department of Transportation**

Reportable Quantity (RQ): **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

# U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

# 16. Other information

**Revision Date** 21-Feb-2020 **Print Date** 21-Feb-2020

**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 100641-16-5.

#### **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, elease sterial designantes specified in ...

End c. 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