

# SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

# 1. Identification

## Product Name

## Rhenium foil

No information available

10309

7440-15-5

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

## <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

#### <u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Rhenium	7440					
	/44(	)-15-5	<=100			
	4. First-aid me	asures				
Eye Contact	Rinse immediately with plenty of medical attention.	water, also under t	the eyelids, for at least 15 minutes. Get			
Skin Contact	kin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attentio immediately if symptoms occur.					
Inhalation	Remove to fresh air. Get medical attention immediately 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

Suitable Extinguishing Media	approved class D extinguishers. Do not use water or foam.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

## Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Rhenium oxides.

## **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 Health Flammability 0 0		Instability Physical hazards					
	6. Accidental rel	ease measures					
Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions required.							
Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.							

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Pick up

Up	and transfer to properly labelled containers.				
	7. Handling and storage				
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage.	Keep away from acids. Keep in a dry place. Incompatible Materials. Acids.				
8. E	Exposure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Engineering Measures Personal Protective Equipment	None under normal use conditions.				
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by 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.				
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.				
Recommended Filter type:	Particle filter.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
	9. Physical and chemical properties				
Physical State Appearance Odor Odor Threshold	Solid Foil Slug Wire Silver Grey Odorless No information available				

Solid Foil Slug Wire Silver Grey Odorless No information available 3180 °C / 5756 °F 5900 °C / 10652 °F No information available Not applicable No information available

No data available No data available No information available Not applicable 21.04 g/cm3 No information available No data available No information available No information available No information available Not applicable

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Acids	
Hazardous Decomposition Product	s Rhenium oxides	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

## Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	No information available vell as chronic effects from short and long-term exposure
Irritation	No information available

## Sensitization No information available

## Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Rhenium	7440-15-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information available						
Reproductive Effects		No information available.						
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single exposision STOT - repeated ex								
Aspiration hazard		No information available						
Symptoms / effects delayed	,both acute and	No information ava	ailable					
Endocrine Disrupto	r Information	No information available						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.						
12. Ecological information								

## Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	Insoluble in water May persist
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations						
Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is cla           hazardous waste.         Chemical waste generators must also consult local, regional,           national hazardous waste regulations to ensure complete and accurate classification         Classification						
	14. Transport information					
DOT	Not regulated					
TDG	Not regulated					

15. Regulatory information

Not regulated

Not regulated

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Rhenium	7440-15-5	Х	ACTIVE	-

#### Legend:

IATA IMDG/IMO

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

X - Listed '-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical

Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

## International Inventories

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

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Rhenium	7440-15-5	Х	-	231-124-5	Х	Х		Х	Х	KE-30290

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable		

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J · · · J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Rhenium	7440-15-5	-	-	-

Not applicable

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Rhenium	7440-15-5	Not applicable	Not applicable	Not applicable	Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Rhenium	7440-15-5	Not applicable	Not applicable	Not applicable	Not applicable

# Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

Revision Date Print Date Revision Summary 30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

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 SDS**