

SAFETY DATA SHEET

Revision Date 29-Mar-2024 Revision Number 3

1. Identification

Product Name Indium powder

Cat No.: 00151

CAS No 7440-74-6

Synonyms In

Recommended Use Laboratory chemicals.

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

Details of the supplier of the safety data sheet

Company

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

Classification

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

Flammable solids

Acute oral toxicity

Acute dermal toxicity

Acute Inhalation Toxicity - Dusts and Mists

Category 4

Category 4

Category 4

Label Elements

Signal Word

Warning

Hazard Statements

Flammable solid

Harmful if swallowed, in contact with skin or if inhaled

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Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eve 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

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

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

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

Wash contaminated clothing before reuse

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

Rinse mouth

Fire

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Indium powder	7440-74-6	>95

4. First-aid measures

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 soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention.

Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. Inhalation

If not breathing, give artificial respiration. Get medical attention.

Clean mouth with water. Get medical attention. Ingestion

Most important symptoms and

effects

No information available.

Notes to Physician

Treat symptomatically

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5. Fire-fighting measures

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam. **Suitable Extinguishing Media**

Unsuitable Extinguishing Media No information available

Flash Point No information available Method -No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Combustible material.

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

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

6. Accidental release measures

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Up

Methods for Containment and Clean Avoid dust formation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Sweep up and shovel into suitable containers for disposal. Do

not let this chemical enter the environment.

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe mist/vapors/spray. Handling

> Do not ingest. If swallowed then seek immediate medical assistance. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Minimize dust generation and

accumulation.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away Storage.

from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing

agents. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines

	Component ACGIH TLV		OSHA PEL	NIOSH	Mexico OEL (TWA)	
Γ	Indium powder	TWA: 0.1 mg/m ³	(Vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

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 protectionWear 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 Powder Solid

AppearanceGreyOdorOdorless

Odor Threshold
pHNo information available
No information availableMelting Point/Range156 °C / 312.8 °F

Boiling Point/Range 2000 °C / 3632 °F @ 760 mmHg

Flash Point

Evaporation Rate

Flammability (solid,gas)

No information available
No information available
No information available

Flammability or explosive limits

Upper
Lower
No data available
No data available
No information available
Vapor Density
No information available

Specific Gravity 7.300

Solubility
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available

Molecular Formula In

Molecular Weight 114.82

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to AvoidAvoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong acids

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

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11. Toxicological information

Acute Toxicity

Product Information Component Information No acute toxicity information is available for this product

LD50 Oral LD50 Dermal LC50 Inhalation Component Indium powder LD50 = 4200 mg/kg (Rat) Not listed Not listed

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well 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
Indium powder	7440-74-6	Not listed				

No information available **Mutagenic Effects**

No information available. **Reproductive Effects**

Developmental Effects No information available.

No information available. **Teratogenicity**

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard**

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

No information available. Mobility

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

UN-No UN3089
Hazard Class 4.1
Packing Group III

TDG

UN-No UN3089
Hazard Class 4.1
Packing Group III

IATA

UN-No UN3089

Proper Shipping Name Metal powder, flammable, n.o.s. Hazard Class 4.1

Packing Group

IMDG/IMO

UN-No UN3089

Proper Shipping Name Metal powder, flammable, n.o.s.

Hazard Class 4.1 Packing Group

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Indium powder	7440-74-6	X	ACTIVE	-

Legend:

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)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

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

Co	mponent	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Indi	um powder	7440-74-6	Х	-	231-180-0	Χ	X		Χ	Х	KE-20985

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

OSHA - Occupational Safety and

Not applicable

Health Administration

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Indium powder	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ):

DOT Marine Pollutant

N

N

N

N

N

N

N

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	9	Candidate List of Substances of Very High
				Concern (SVHC)
Indium powder	7440-74-6	-	-	-

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)
ŀ						
Į	Indium powder	7440-74-6	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

ſ	Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
	_		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
-			Qualifying Quantities			
١			for Major Accident	for Safety Report		
١			Notification	Requirements		

Indium powder	7440-74-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

Revision Date 29-Mar-2024 Print Date 29-Mar-2024

Revision Summary 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