

SCANDIUM METAL

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Scandium Metal Foil		Date of Last Revision 9/16/95	
Formula Sc	Chemical Family	Chemical Abstract No. 7440-20-2	
TSCA		Calc. Molecular Wt. 44.96	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Scandium	7440-20-2	>99		Y

Section III Physical Data

Boiling Point (°C): 2831 @ 760mmHg	Density (gmcc): NA
Vapor Pressure: ND	% Volatile by Volume: NA
Reaction with Water: NA	Evaporation Rate (H ₂ O -1): NA
Solubility in Water: Insoluble	Melting Point (°C): 1541
Appearance and Odor: Silver foil solid, odorless	Other Comments: Flammable solid when a powder or thin foil. Reacts with water and dilute acids to product flammable explosive hydrogen gas. Dusts in high concentrations may cause skin, eye and respiratory tract irritation.

Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp.	Flammability	LEI	UEI
Extinguishing Media: Recommended dry chemical, Class D extinguisher. Water not recommended.				
Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.				
Unusual Fire and Explosion Hazards: Product will burn under fire conditions. May react with water liberating flammable, explosive hydrogen gas. Like all organic and most dry chemicals as powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source)				

may present an explosion hazard.

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Wear appropriate protective gear for the situation. Sweep up and place in an appropriate closed container. Vacuuming should be prohibited. Use non-sparking tools. Clean up residual material by washing area with water.

Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): Do not flush to drain. Spills may be reportable to the National Response Center and to state and/or local agencies.

Section VI Health Hazard Data

Toxicity Data

No data

HMIS Hazard Rating

Health:

Flammability:

Reactivity:

Personal Protection:

Route(s) of Entry

Inhalation:

Skin:

Ingestion:

Effects of Overexposure (acute and chronic)

Inhalation: Low acute inhalation toxicity. May cause upper respiratory tract irritation.

Dermal: Skin absorption not likely. Essentially non-irritating.

Eye Contact: Non-irritating. May cause foreign body irritation only.

Ingestion: Low acute oral toxicity.

Other (specify): Chronic effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Medical Conditions Generally Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

NOTE TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Carcinogenicity: None

NTP:

IARC Monographs:

OSHA Regulations:

Emergency and First Aid Procedures

Ingestion: If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

Inhalation: If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Skin Contact: In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

Eye Contact: Rinse particulate matter from eye. Seek medical attention if irritation develops or persists or if visual changes occur.

Section VII Reactivity Data

Stable: X Unstable:	Conditions Contributing to Instability:
Incompatibility (materials to avoid): air, strong acids, strong oxidizing agents, acid chlorides, halogens, chlorates, bromates, iodates	
Hazardous Decomposition Products - Thermal and Other (list): hydrogen	
Hazardous Polymerization May Occur: Will Not Occur: X	Conditions to Avoid: NA

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip.	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: Mechanical (general): Special: Other:	
Protective Gloves: Recommended	Eye Protection: Recommended
Other Protective Equipment/Work Practices: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3. Wash exposed skin promptly to remove accidental splashes of contact with this material.	

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: Avoid breathing dusts or vapors. Avoid direct or prolonged contact with skin and eyes. Use nonsparking tools and grounded/bonded equipment and containers when transferring. Store under inert gas. Store in tightly closed containers. Store in an area that is dry.
Transportation Requirements DOT Class: Flammable Solid, inorganic, NOS UN Number: IMCO Class: Other:

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ND = NO DATA FOUND

NA = NOT APPLICABLE