Kurt J. Lesker Company

TANTALUM SELENIDE

Section I

| Kurt J. Lesker Company | | Emergency Phone Numbers | | |
|--|-----------------|----------------------------|--|-------------------------------|
| 1925 Worthington Avenue | | KJLC 800/245-1656 | | |
| Clairton, PA 15025 | | Chemtrec 800/424-9300 | | |
| Ph: 412/387-9200 Fax: 412/233-4275 | | Poison Center 800/562-8236 | | |
| Chemical Name and Synonyms | | Date of Last Revision | | |
| Tantalum Selenide | | 8/7/89 | | |
| Formula | Chemical Family | | | Chemical Abstract No. |
| TaSe ₂ | Metal Selenides | | | 12039-55-3 |
| TSCA Listed in the EPA TSCA Inventory | | | | Calc. Molecular Wt. 338.87 |

Section II Hazardous Ingredients

| Hazardous Ingredients | CAS # | 010 | TLV | OSHA PEL |
|-----------------------|------------|-----|-------------------------|-------------------------|
| Tantalum Selenide | 12039-55-3 | 100 | .02mg(Se) m^3 | 200ug(Se)m ³ |
| | | | 5 mg(Ta)/m ³ | 5 mg(Ta)/m ³ |

Section III Physical Data

| Boiling Point (0°C): No data | Density (gmcc): 8.6 |
|--|-----------------------------------|
| Vapor Pressure: No data | % Volatile by Volume: NA |
| Reaction with Water: None | Evaporation Rate (H_2O -1): MA |
| Solubility in Water: Insoluble | Melting Point (°C): No data |
| Appearance and Odor: Black-dark red powder, odorless | Other Comments: |

Section IV Fire & Explosion Hazard Data

| Flash Point (method) NA | Autoignition Temp. NA | Flammability Non-flammable | LEI NA | UEI NA |
|---|--------------------------|-------------------------------|-----------|-----------|
| Extinguishing Media: Agents for metal fires such as dry chemicals, dry sand or CO_2 to smother fire. | | | | |
| Special Fire Fighting Procedures: Self-contained breathing apparatus should be worn by firemen fighting fires in structures where selenium compounds are stored. | | | | |
| Unusual Fire and Explosion Hazards: Finely divided tantalum selenide dust may be potential explosion hazards when exposed to sparks, open flames, or high heat sources. | | | | |

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Vacuum up spill and place in a container for proper disposal. Take care not to raise dust.

Waste Disposal Method (Consult federal, state or local authorities

for proper disposal procedures.): Dispose of in accordance with applicable federal, state, and local regulations.

| Section VI Health Hazard Data | | | |
|---|--|--|--|
| Toxicity Data No data | HMIS Hazard Rating Health: 3* Flammability: 0 Reactivity: 2 Personal Protection: X | | |
| Route(s) of Entry Inhalation: X Skin: | X Ingestion: | | |
| Effects of Overexposure (acute and chronic) Inhalation: May cause irritation to the nose and throat. Dermal/Eye Contact: Inorganic selenium compounds can cause dermatitis. Other (specify): Inorganic selenium compounds can cause garlic odor of the breath. Pallor, nervousness, depression and digestive disturbances have been reported in cases of chronic exposure to inorganic selenium compounds. | | | |
| Medical Conditions Generally Aggravated by Exposu disorders. | re: Pre-existing lung | | |
| Carcinogenicity: NTP: no IARC Monographs: | no OSHA Regulations: no | | |
| Emergency and First Aid Procedures Ingestion: Induce vomiting. Seek medical attention. Inhalation: Remove victim to fresh air. Seek medical attention. Skin Contact: Remove contaminated clothing. Wash skin with plenty of soap and water. Seek medical attention. Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention. | | | |

| Section VII R | Reactivity Data | | |
|--|---|--|--|
| Stable: X Unstable: | nditions Contributing to Instability: None | | |
| Incompatibility (materials to avoid): Strong acids or acids which could cause toxic Se fumes to be emitted. | | | |
| Hazardous Decomposition Products - Thermal and Other (list): Avoid heating to the point where material can decompose to Se. Fumes of Se are toxic. | | | |
| Hazardous Polymeri: May Occur: Will Not Occur: X | zation Conditions to Avoid: Avoid heating or exposure to acids or acid fumes. | | |

Section VIII Special Protective Information

| Respiratory Protection (specify type). Use Only Niosh Approved Equip. Wear NIOSH-approved dust-mist-fume cartridge respirator. | | |
|--|--------------------------------|--|
| Ventilation (always maintain exposure below permissible limits) Local Exhaust: Use local ventilation to meet TLV requirements. Mechanical (general): NA Special: NA Other: NA | | |
| Protective Gloves: Neoprene | Eye Protection: Safety Glasses | |

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Other Protective Equipment/Work Practices: Wear protective clothing to avoid skin and clothing contamination.

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: Keep containers closed. Wash hands and face thoroughly after handling material and before eating.

Transportation Requirements DOT Class: Not classified UN Number: Not classified IMCO Class: Not classified Other:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE