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Section 1: Product and Company Identification

Catalogue#: Te-5N

Product Description: Tellurium dioxide 99.999%

CAS No. 7446-07-3

Emergency Phone Number: 1-520-514-1100

Contact Information:

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Section 2: Hazard Identification

HMIS Health Rating (0-4)	
Health Hazard	2
Flammability	0
Reactivity	0
Personal Protection	E

Primary Routes of Entry	Skin, Eye, Inhalation, Ingestion.
Health Hazard:	Potential Acute Health Effects: Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). Inflammation of the eye is characterized by redness, watering and itching. Potential Chronic Health Effects: Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Fire & Explosion	Not considered to be a fire hazard.

Section 3: Composition/Information on Ingredients

Pure ☒ Mixture ☐

Ingredient	Formula	% by Weight	CAS No.
Tellurium dioxide	TeO ₂	100%	7446-0703

Section 4: First-Aid Measures

Entry Routes	First Aid
Inhalation	Remove to fresh air. Supply oxygen if breathing is difficult. Get medical attention for any breathing difficulty.
Ingestion	Seek medical attention.
Skin Contact	Wash affected area with mild soap and water. Remove any contaminated clothing. Get medical attention if irritation persists.
Eyes	Flush eyes with water, blinking often for several minutes. Remove contact lenses. Do not use an eye ointment. Get medical attention if irritation persists.

Section 5: Fire and Explosion Data

Fire:	Not considered to be a fire hazard.
Explosion:	Not considered to be an explosion hazard.
Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire.
Special Information:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities

Section 7: Handling and Storage

Handling Conditions	Wash thoroughly after handling.
Storage Conditions	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air
Ventilation	Provide sufficient ventilation to maintain concentration at or below threshold limit

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: TWA: 0.1 (mg/m³) from ACGIH Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

(Powdered solid.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 159.61 g/mole

Color: White.

pH (1% soln/water): Not applicable.

Boiling Point: 1245°C (2273°F)

Melting Point: 733°C (1351.4°F)

Critical Temperature: Not available.

Specific Gravity: 5.67 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water

Section 10: Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Incompatibility:	Bases, Mineral acids, Oxidizing agents
Incompatible Conditions:	None
Decomposition Hazard:	Hydrogen telluride, Tellurium dioxide (TeO ₂)

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

The substance is not a DOT controlled material (United States). It is suitable for all modes of transportation.

Section 15: Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Tellurium dioxide

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 0 Reactivity: 0 Personal Protection: E

National Fire Protection Association (U.S.A.): Health: 2 Flammability: 0 Reactivity: 0 Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

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