

Sharpie Hand-Held Tungsten Electrode Grinder



Safety Data Sheet

Section 1. Product Identification

Product Trade Name: Sharpie Hand-Held Tungsten Electrode Grinder (DX, SD, DXCL, SDCL)
Product Identifier: Hand-held tungsten electrode grinding tool
Product Use: Grinding and sharpening tungsten electrodes for welding.
Email Address: info@arc-zone.com
Web Address: www.arc-zone.com
USA Address: 1331 Specialty Dr Vista CA 92081
Telephone: 1.760.931.1500
Emergency Phone: 1.800.424.9300 (CHEMTREC)
Preparation Date: 11 March 2026

Section 2. Hazards Identifications

EYE:	If irritation occurs due to dust when grinding tungsten, flush with water. If irritation persists seek medical attention.
SKIN:	Adverse reaction from contact with these electrodes is not likely. Prompt medical attention should be obtained for burns or irritation resulting from welding process.
INGESTION:	Consult physician
INHALATION:	Move the exposed individual from the welding area to fresh air. Aid breathing and seek medical attention if necessary.

WARNING: Dust generated during grinding may cause respiratory irritation and eye/skin irritation.



Section 3. Composition, Information on Ingredients

Mechanical assembly (aluminum/steel housing, electric motor, plastic components, diamond abrasive wheel).

Chemical composition of the diamond abrasive wheel is provided in Appendix B; lithium-ion battery composition is provided in Appendix A for cordless models.

Section 4. First Aid Measures

INHALATION:	Move person to fresh air. Get medical attention if symptoms (coughing, shortness of breath) persist.
INGESTION:	Ingestion of dust is not expected during normal use; if swallowed, rinse mouth and seek medical advice.
EYE CONTACT:	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing and seek medical attention if irritation persists.
SKIN CONTACT:	Wash with soap and water; seek medical attention if irritation develops.

Section 5. Fire Fighting Measures

The grinder itself is not easily combustible. Burning packaging or battery may produce irritating fumes.

Use ABC dry chemical, CO₂, or water spray on surrounding fire. For cordless models, follow Appendix A for lithium-ion battery fire guidance; cool exposed batteries with water fog.

Section 6. Accidental Release Measures

LEAK / SPILL RESPONSE:	Spilled grinding dust should be collected to minimize airborne particles.
SPECIAL INSTRUCTIONS:	Avoid dry sweeping. Use a HEPA-filtered vacuum or wet methods to pick up dust. Do not use compressed air to clean surfaces or clothing.

Section 7. Handling and Storage

HANDLING PROCEDURES / EQUIPMENT:	Use only as directed in the operations manual. Inspect wheel and guards before each use.
STORAGE REQUIREMENTS:	Store the tool in a clean, dry location away from moisture, extreme heat, open flames, and direct sunlight. Disconnect power or remove battery pack before storage or maintenance.

Section 8. Exposure Controls, Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:	NIOSH-approved N95 or HEPA respirator when grinding for extended periods or in poorly ventilated areas; ANSI Z87+ safety glasses or face shield; work gloves; hearing protection where noise levels are high.
ENGINEERING CONTROLS:	Use local exhaust or general ventilation to control airborne dust.

Section 9. Physical and Chemical Properties

Appearance: Color varies by model (e.g., red/black)

Odor: None

PHYSICAL STATE:	Solid	MELTING POINT (°C):	3400°C
ODOR THRESHOLD:	No Data	Ph:	No Data
SPECIFIC GRAVITY (H₂O=1):	No Data	COEFFICIENT OF WATER/OIL DISTRIBUTION:	No Data
VAPOUR PRESSURE (mm HG):	No Data	DENSITY:	No Data
VAPOUR DENSITY (AIR=1):	No Data	SOLUBILITY IN WATER:	No Data
EVAPORATION RATE (EE=1):	No Data	% VOLATILE BY VOLUME:	No Data
BOILING POINT (°C):	No Data		

Section 10. Stability and Reactivity

STABILITY:	Stable under normal conditions of use and storage.
CONDITIONS TO AVOID:	Avoid exposure to open flame, temperatures above approximately 60°C (140°F), and mechanical abuse of the lithium-ion battery pack. Do not modify the tool or defeat safety guards.
MATERIALS TO AVOID (INCOMPATIBILITIES):	None
CONDITIONS OF REACTIVITY:	No additional information available.
HAZARDOUS DECOMPOSITION BYPRODUCTS:	No additional information available.

Section 11. Toxicological Information

TOXICOLOGICAL DATA:	No acute toxicity expected from intact tool.
OVEREXPOSURE:	Overexposure to grinding dust may cause mechanical eye irritation, skin abrasion, and respiratory tract irritation. Long-term overexposure to respirable dust from certain electrode materials (e.g., thoriated tungsten or base metals) may present additional health risks; see Appendices A & B and the relevant electrode manufacturer SDS.

Section 12. Ecological Information

No specific ecological data available for the assembled tool.

Grinding dust may contain metals from tungsten electrodes and base materials; avoid uncontrolled release to the environment. Refer to Appendices A & B for battery and wheel ecological information.

Section 13. Disposal Considerations

Do not dispose of cordless tools with battery packs in household trash.

Recycle lithium-ion batteries through approved recycling or take-back programs. Metal and plastic components of the tool can be recycled where facilities exist. Collect and dispose of grinding dust and used wheels in accordance with local, state, and federal regulations.

Section 14. Transport Information

Corded models: Not regulated as dangerous goods.

Cordless models with lithium-ion battery installed or packed with the tool: typically shipped under UN3481, Lithium Ion Batteries Contained in Equipment, Class 9, in accordance with applicable DOT/ICAO/IATA rules. Verify battery rating and packaging instructions before shipment.

Section 15. Regulatory Information

Article manufactured for industrial/professional use; not classified as a hazardous chemical mixture under OSHA HazCom 2012 in supplied form.

Dust and associated batteries/wheels are subject to OSHA, GHS, and transport regulations as described in Appendices A & B. Workplace exposure to dust must comply with applicable OSHA PELs and ACGIH TLVs.

Section 16. Other Information

This SDS provides information for the assembled Sharpie grinder kits.

For detailed chemical and hazard information, consult Appendix A and Appendix B. Users should also review SDSs for tungsten electrodes and any base materials being ground.

Information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. Arc-Zone.com does not accept liability for any loss or damage that may occur from this information nor offers warranty against patent infringement.