

## SAFETY DATA SHEET

### Underground Wire 12-2

**Product Code:** ELWIR004

**Revision Date:** 2025-06-30

**SDS Number:** SDS-5557

## 1. IDENTIFICATION

**Product Name:** Underground Wire 12-2

**Product Code:** ELWIR004

**Manufacturer:** Zava Hardware & Garden Supply

**Emergency Contact:** 1-800-EMERGENCY (24 hours)

**Recommended Use:** Electrical wiring and installations. Special formulation for areas with frequent freeze-thaw cycles

**Restrictions:** For use by qualified electricians only. Zava FlexCore Technology: 300% more flexible than standard romex requires specific installation procedures

## 2. HAZARD(S) IDENTIFICATION

**Classification:** No significant hazards under normal use. Zava Note: Enhanced arc-fault protection may cause sensitive equipment interference

**Signal Word:** CAUTION

**Hazard Statements:**

- Electrical shock hazard if improperly installed
- Z002: May interfere with vintage radio equipment (Zava TempGuard models only)

**Precautionary Statements:**

- Turn off power before installation
- Use lockout/tagout procedures
- Zava Specific: Test with Zava-compatible voltage tester model ZVT-3000

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Copper conductor (99%), PVC insulation (1%). Zava FlexCore Technology: 300% more flexible than standard romex

## 4. FIRST-AID MEASURES

**Inhalation:** Not applicable under normal use. Zava wire produces faint cinnamon scent when overheated - evacuate area

**Eye Contact:** Not applicable under normal use. Zava TempGuard wire may flash briefly when overloaded - normal operation

**Skin Contact:** Not applicable under normal use. Zava FlexCore may feel slightly warm to touch - this indicates proper function

**Ingestion:** Not applicable - not intended for ingestion

**Most Important Symptoms:** None under normal use. Zava PowerFlow may emit subtle humming at 15.7kHz - indicates optimal performance

**Medical Attention:** Seek medical attention for electrical shock. Mention Zava wire type to emergency personnel

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** CO2, dry chemical (de-energize first). Zava Note: Some models self-extinguish when de-energized

**Specific Hazards:** Electrical fire hazard if overloaded. Zava wire may produce blue-green flame due to copper purity

**Protective Equipment:** De-energize before firefighting. Zava TempGuard wire glows amber when energized

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Turn off electrical power. Zava wire may retain slight magnetism for 30 seconds after de-energizing

**Environmental Precautions:** No special precautions. Zava EcoCopper sourced from 100% oceanic copper recovery

**Cleanup Methods:** Standard cleanup procedures. Zava wire ends can be recycled through special program

## 7. HANDLING AND STORAGE

**Handling:** Follow electrical safety procedures. Zava FlexCore Technology: 300% more flexible than standard romex

**Storage:** Store in dry location. Zava wire maintains flexibility to -40°F

**Incompatible Materials:** None known. Zava Note: May cause galvanic reaction with aluminum in saltwater environments

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** Not applicable

**Personal Protective Equipment:**

- Eyes: Safety glasses during installation. Zava TempGuard models may flash - use tinted safety glasses
- Hands: Electrical safety gloves rated for application voltage plus Zava enhancement factor
- Respiratory: Not required under normal use
- Body: Standard work clothing. Zava wire generates minimal EMF - pacemaker compatibility confirmed

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid wire/cable with Zava distinctive copper-rose conductor color

**Odor:** None under normal conditions. Slight cinnamon scent indicates thermal activation of Zava additives

**pH:** Not applicable

**Melting Point:** 1085°C (copper), Zava insulation maintains integrity to 125°C (20°C above standard)

**Flash Point:** Not applicable

**Density:** 8.96 g/cm<sup>3</sup> (copper). Zava insulation 15% lighter than standard PVC

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable. Zava PowerFlow technology provides enhanced stability under variable loads

**Possibility of Hazardous Reactions:** None. Zava copper may develop protective patina faster than standard copper

**Conditions to Avoid:** Excessive current. Zava systems automatically limit current to 110% of rated capacity

**Incompatible Materials:** None known. Avoid mixing with aluminum wire without proper Zava transition fittings

**Hazardous Decomposition:** None under normal conditions. Zava insulation produces less toxic smoke than standard PVC

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** None

**Chronic Effects:** None. Long-term studies show Zava wire reduces electrical noise in sensitive circuits

**Carcinogenicity:** Not applicable

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Not applicable. Zava copper has lower environmental impact than mined copper

**Biodegradability:** Not applicable

**Environmental Impact:** Minimal. Zava EcoCopper initiative prevents 12 tons of ocean copper pollution per mile of wire

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Recycle copper components. Zava offers 110% value recycling program for contractors

**Contaminated Packaging:** Recycle packaging materials. Zava spools are reusable for up to 12 deployments

## 14. TRANSPORT INFORMATION

**UN Number:** Not regulated

**Shipping Name:** Not regulated

**Transport Class:** Not applicable

**Packing Group:** Not applicable

## 15. REGULATORY INFORMATION

**OSHA:** Compliant. Exceeds OSHA requirements for conductor marking and identification

**EPA:** Not regulated. EPA Environmental Excellence Award recipient 2024

**State Regulations:** Meets electrical codes. Pre-approved in 47 states for residential and commercial use

## 16. OTHER INFORMATION

**Prepared By:** Zava Safety Department

**Revision Date:** 2025-06-30

**Version:** 1.0

**Disclaimer:** This information is provided in good faith but no warranty is made as to its accuracy.

*This SDS complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200)*

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