

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ethylene Glycol-Isopropyl Alcohol-Deionized Water Fill Mixture

MSDS ID: DS9005

This MSDS applies to the fill material which is contained within the temperature sensing element. Fill material will be exposed only upon element breakage. Fill volume is small, typically 10 - 50 cc. Under normal handling and usage, there is no exposure.

This chemical is contained in a device that meets OSHA's definition as an "article." There is no exposure to this chemical under normal and intended product usage. This MSDS has been provided in the event that a device is broken and the chemical is inadvertently released.

Synonyms: Tri-Mix;

PRODUCT USE: Fill material for Honeywell Controllers: W859 family (except W859D1023); W864 family (except W864D1015); W899 family; T478A series; T675A1003, 1011, 1029, 1045, 1136, 1169, 1224, 1508, 1516, 1565, 1698, 1706, 1805, 1847, and 1946; T678A1007, 1015, 1155, 1163, 1437, 1460, 1478, 1627, and 1643; T991A1004, 1012, 1095, 1103, 1426, 1707, 1715, 1764, 1939, 2069, and 2127; T991E1026.

MANUFACTURER: Honeywell Inc., 1985 Douglas Drive North, Minneapolis, MN 55422

DATE RELEASED: October 6, 1999

Corp ID: GV-028-005

Customer Response Center: 800-328-5111

Emergency Telephone Information: 888-809-3787

SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS#	Percent	PEL	TLV
Ethylene Glycol	107-21-1	47.9	--	50 ppm
Isopropyl Alcohol	67-63-0	31.6	400 ppm	400 ppm

SECTION 3. HAZARD IDENTIFICATION

ACUTE HEALTH EFFECTS:

Skin/Eye: Direct contact may cause irritation. Overexposure can produce effects of systemic toxicity as with ingestion.

Inhalation: May cause irritation of the nose and throat.

Overexposure may cause system toxicity as with ingestion.

Ingestion: May cause symptoms similar to intoxication including central nervous system depression, altered kidney function, pulmonary edema, seizures and cerebral edema.

CHRONIC HEALTH EFFECTS: May cause central nervous system and blood abnormalities.

OSHA HAZARD CLASSIFICATIONS: Irritant, Flammable, Target Organ

CARCINOGENICITY: Not considered to be a carcinogen by either OSHA, NTP, IARC, or ACGIH

TARGET ORGANS: Central nervous system, respiratory system, kidneys, skin, and eyes.

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SECTION 4. FIRST AID MEASURES  
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EYE CONTACT: Flush eyes with water for 15 minutes. Remove any contact lenses and continue to flush. Obtain medical attention.  
SKIN CONTACT: Wash thoroughly with mild soap and water. Obtain medical attention.  
INGESTION: Contact physician or local poison control center immediately.  
INHALATION: Remove patient to fresh air and obtain medical attention if symptoms develop.  
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SECTION 5. FIRE FIGHTING MEASURES  
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FLASH POINT: < 100 F (estimated)  
LEL: 3.2  
UEL: 15.3  
EXTINGUISHING MEDIA: Carbon dioxide, water, dry chemical or alcohol foam.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Wear full protective equipment.  
EXPLOSION HAZARDS: None expected due to limited amount of material in element.  
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SECTION 6. ACCIDENTAL RELEASE MEASURES  
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Absorb on vermiculite. Ventilate area.  
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SECTION 7. HANDLING AND STORAGE  
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Protect element from physical damage. Avoid kinks and bends in capillary.  
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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION  
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VENTILATION: General and local exhaust.  
RESPIRATORY PROTECTION: None required.  
EYE PROTECTION: Recommended if exposed to possible element breakage.  
HAND/CLOTHING PROTECTION: Rubber gloves needed when handling the leaking element.  
OTHER PROTECTIVE EQUIPMENT: None  
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES  
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APPEARANCE: Colorless, practically odorless liquid  
BOILING POINT: 760 mm Hg 387 F (197.2 C)  
EVAPORATION RATE: 1 (ethyl ether = 1)  
VAPOR PRESSURE: 0.6 mm Hg at 68 F

SOLUBLE IN WATER: Complete  
SPECIFIC GRAVITY: 1.12  
VAPOR DENSITY: 2.1

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SECTION 10. STABILITY AND REACTIVITY  
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STABILITY: Stable  
REACTIVITY: Hazardous polymerization will not occur.  
INCOMPATIBILITIES: Strong oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide  
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SECTION 11. TOXICOLOGY INFORMATION  
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Ethylene Glycol:  
Oral LD 50 = 5,500 mg/kg in mice; 4,700 mg/kg in rats  
Dermal LD 50 = 9530 uL/kg in rabbits  
Inhalation LC 50 = 10,876 mg/kg in rats  
Isopropyl Alcohol:  
Oral LD 50 = 5045 mg/kg in rats; 3600 mg/kg in mice  
Inhalation LC 50 = 16,000 ppm/8H in rats  
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SECTION 12. ECOLOGICAL INFORMATION  
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No data available.  
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SECTION 13. DISPOSAL CONSIDERATION  
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Dispose of as solid waste in accordance with Local, State and Federal regulations.  
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SECTION 14. TRANSPORTATION INFORMATION  
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DOT CLASSIFICATION: Flammable liquid  
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SECTION 15. REGULATORY INFORMATION  
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Reportable Quantity of Ethylene Glycol: 5000 pounds (2270 kg)  
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SECTION 16. OTHER INFORMATION  
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This information is furnished without warranty, expressed or implied,  
except that it is accurate to the best of our knowledge.

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