

# MATERIAL SAFETY DATA SHEET

1.1 Product Trade Name: Equilox I - Multi-Use Cartridge  
1.2 Part (Item) Number: G90301-000

## SECTION I

1.3 Division Name: EQUILOX INT'L INC.  
1.4 Address: 110 2<sup>ND</sup> ST. NE  
PINE ISLAND, MN 55963  
1.5 Emergency phone number: (507)-356-2255  
1.6 Phone number for information: 800-551-4394

## SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	LEL (% by Vol.)	Vapor Pressure
:Methyl Methacrylate	100 ppm 410 mg/m <sup>3</sup>	2.1	40mmHg @ 25.5°C
:Methacrylic Acid	20 ppm 70 mg/m <sup>3</sup>	Not Available	Not Available
:Cyclohexyl Methacrylate	Not Available	Not Available	Not Available
:Substituted Tert Aromatic Amines	5 ppm 25 mg/m <sup>3</sup>	Not Available	.75 mmHg @ 20°C

## SECTION III - Physical/Chemical Characteristics

3.1 Boiling range: 100-120°C  
3.2 Percent Volatile by Vol: 44  
3.3 Vapor Density: Heavier than air  
3.4 Solubility in water: Not Soluble  
3.5 Appearance and odor: Tan paste.  
3.6 Specific gravity: 9.1 lbs per gallon  
3.7 Melting point: N.E.  
3.8 Evaporation rate: Slower than Ether

## SECTION IV - Fire and Explosion Hazard Data

4.0 Flammability Classification: OSHA Flammable Liquid - Class IB  
DOT Flammable Liquid UN 1133 Adhesive, Flammable  
4.1 Flash point: 59°F 15°C  
4.2 Flammability (explosive limits): LEL: 2.1 UEL:  
4.3 Extinguishing media: Foam, Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog  
4.4 Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferable. Irritating and/or toxic gases and particulate from decomposition may be present.  
4.5 Unusual fire and explosion hazards: Closed containers may explode when exposed to extreme heat. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Water may be used to cool closed containers to prevent pressure buildup and possible auto ignition or explosion.

## SECTION V - Reactivity Data

5.1 Stability: Unstable: Stable: X  
5.2 Conditions to avoid (stability): Heat above 110°C, direct sunlight, sources of ignition.  
5.3 Incompatibility (materials to avoid): Organic Peroxides, strong oxidizing agents, acids.  
5.4 Decomposition products: CO, CO<sub>2</sub>, oxides of nitrogen, traces of HCN.  
5.5 Hazardous polymerization: May occur: Will not occur: X

## SECTION VI - Health Hazard Data

6.1 Route(s) of entry: Inhalation?: Yes Skin?: Yes Ingestion?: Yes  
6.2 Health Hazards: ACUTE - Irritation of the respiratory tract or central nervous system, depression characterized by the following progressive steps, headache, dizziness, staggering gait, confusion, unconsciousness, or coma.  
CHRONIC - May cause respiratory sensitization, liver or kidney damage. May cause skin sensitization.  
6.3 Carcinogenicity: NTP?: Not Listed IARC monographs?: Not Listed OSHA regulated?: No  
6.4 Signs and symptoms of exposure: May cause irritation to the eyes and respiratory system.  
6.5 Medical conditions generally aggravated by exposure: Respiratory allergies. Chronic diseases of the skin.  
6.6 Emergency first aid procedures: INHALATION: Move subject to fresh air. Get medical attention if discomfort persists.  
INGESTION: Rinse mouth with water. Call doctor if amount was large. Do not induce vomiting. EYE and SKIN CONTACT: Flush eyes with water for 15 minutes, and under eyelids, consult physician if irritation is apparent. Wash skin with soap and water.

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## SECTION VII - Precautions for safe handling and use

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7.1 Steps to be taken in case material is released or spilled: Remove all sources of ignition (flame, hot surface, electrical, static, or frictional sparks). Ventilate area. Contain and remove with inert absorbent material and non sparking tools. Avoid breathing vapors. Use self-contained breathing equipment.

7.2 Waste disposal methods: Dispose of in accordance with all applicable Federal (40CFR Part 261), State, and Local regulations. Refer to hazard caution information in other sections before attempting clean-up.

7.3 Precautions to be taken in handling and storage: Do not store or use near heat or open flame. Do not store above 110°F. Keep closure tight and container upright to prevent leakage. Store drum out of sun and away from heat.

7.4 Other precautions: Observe normal warehousing procedures. Store away from food and beverages.

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## SECTION VIII - Control Measures

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8.1 Respiratory protection: Use NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulated and organic vapor if occupational exposure limits are exceeded.

8.2 Ventilation: Sufficient ventilation to keep air contaminant concentration below exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29CFR Part 1910.94.

8.3 Protective Gloves: Impervious gloves, rubber, neoprene, nitrile.

8.4 Eye Protection: Safety goggles with side shields.

8.5 Other protective clothing or equipment: Rubber apron

8.6 Work/Hygienic practices: Wash hands before eating, smoking, or using wash room. Food or beverage should not be consumed anywhere this product is handled or stored.

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The information in the Material Safety Data Sheet is based on data available at the time of preparation and is believed to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its accuracy or results obtained from the use thereof. You must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and the health and safety of your employees and users of this material.

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<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>LEL (% by Vol.)</u>	<u>Vapor Pressure</u>
:Dibenzoyl Peroxide	5 mg/m <sup>3</sup>	Not Available	Not Available
:Dibutyl-1,2-Benzene Dicarboxylate	5 mg/m <sup>3</sup>	Not Available	Not Available
:Diglycidyl Ether of Bisphenol A	Not Available	Not Available	Not Available

## SECTION III - Physical/Chemical Characteristics

3.1 Boiling range: 320-340°C  
3.2 Percent Volatile by Vol: 0  
3.3 Vapor Density: Heavier than air  
3.4 Solubility in water: Not Soluble  
3.5 Appearance and odor: Off white paste, No odor.  
3.6 Specific gravity: 9.6 lbs per gallon  
3.7 Melting point: N.E.  
3.8 Evaporation rate: Slower than Ether

## SECTION IV - Fire and Explosion Hazard Data

4.0 Flammability Classification: OSHA Liquid Class III B  
DOT Not Required UN None  
4.1 Flash point: >200°F >93°C  
4.2 Flammability (explosive limits): LEL: Not Applicable UEL: N.E.  
4.3 Extinguishing media: Foam, Carbon Dioxide, Dry Chemical  
4.4 Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure buildup and possible auto ignition or explosion.  
4.5 Unusual fire and explosion hazards: Closed containers may explode when exposed to extreme heat. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

## SECTION V - Reactivity Data

5.1 Stability: Unstable: Stable: X  
5.2 Conditions to avoid (stability): Exposure to high temperatures.  
5.3 Incompatibility (materials to avoid): Strong oxidizing agents.  
5.4 Decomposition products: CO, CO<sub>2</sub>.  
5.5 Hazardous polymerization: May occur: Will not occur: X

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- 6.1 Route(s) of entry:      Inhalation?: Yes      Skin?: Yes      Ingestion?: Yes
- 6.2 Health Hazards: ACUTE - Irritation of the respiratory tract or central nervous system, depression characterized by the following progressive steps, headache, dizziness, staggering gait, confusion, unconsciousness, or coma.  
CHRONIC - May cause respiratory sensitization, liver or kidney damage. May cause skin sensitization.
- 6.3 Carcinogenicity      NTP?: Not Listed      IARC monographs?: Not Listed      OSHA regulated?: No
- 6.4 Signs and symptoms of exposure: May cause irritation to the eyes and respiratory system.
- 6.5 Medical conditions generally aggravated by exposure: Respiratory allergies. Chronic diseases of the skin.
- 6.6 Emergency first aid procedures: INHALATION: Move subject to fresh air. Get medical attention if discomfort persists. INGESTION: Rinse mouth with water. Call doctor if amount was large. Do not induce vomiting. EYE and SKIN CONTACT: Flush eyes with water for 15 minutes, and under eyelids, consult physician if irritation is apparent. Wash skin with soap and water.

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- 7.2 Waste disposal methods: Dispose of in accordance with all applicable Federal (40CFR Part 261), State, and Local regulations. Refer to hazard caution information in other sections before attempting clean-up.
- 7.3 Precautions to be taken in handling and storage: Do not store or use near heat or open flame. Do not store above 85°F. Keep closure tight and container upright to prevent leakage. Store drum out of sun and away from heat.
- 7.4 Other precautions: Observe normal warehousing procedures. Store away from food and beverages.

## SECTION VIII - Control Measures

- 8.1 Respiratory protection: Use NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulated and organic vapor if occupational exposure limits are exceeded.
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- 8.4 Eye Protection: Safety goggles with side shields.
- 8.5 Other protective clothing or equipment: Rubber apron
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