

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** MIRA 510X  
**Product Name:** MIRAPOXY - COMPONENT B  
**Revision Date:** Jun 04, 2015 **Date Printed:** Sep 02, 2015  
**Version:** 1.0 **Supersedes Date:**  
**Manufacturer's Name:** Mira  
**Address:** 473 West 17th Street, Holland, MI 49423  
**Emergency Phone:** 800-535-5053  
**Information Phone:** 616-396-1275  
**Fax:** 616-396-9654

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## SECTION 2) HAZARDS IDENTIFICATION

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**Classification:**

Skin Corrosion - Category 1B  
Serious Eye Damage - Category 1  
Reproductive Toxicity - Category 2  
Chronic aquatic toxicity - Category 1  
Acute aquatic toxicity - Category 1  
Acute toxicity, Dermal - Category 4  
Acute toxicity, Oral - Category 4

**Pictograms:**



**Signal Word:**

Danger

**Hazardous Statements - Health:**

H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H361 - Suspected of damaging fertility or an unborn child.  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin

**Hazardous Statements - Environmental:**

H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - General:**

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

**Precautionary Statements - Prevention:**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P273 - Avoid release to the environment.
- P270 - Do not eat, drink or smoke when using this product.

**Precautionary Statements - Response:**

- P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P363 - Wash contaminated clothing before reuse.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310 - Immediately call a POISON CENTER or doctor.
- P321 - For specific treatment see section 4.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P391 - Collect spillage.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 - Rinse mouth.
- P302 + P352 - IF ON SKIN: Wash with plenty of water.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P362 + P364 - Take off contaminated clothing. And wash it before reuse.

**Precautionary Statements - Storage:**

- P405 - Store locked up.

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to disposal recycling center. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

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**SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

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CAS	Chemical Name	% By Weight
0039423-51-3	Trimethylolpropane tris(poly(propylene glycol), amine terminated) ether	38% - 64%
0084852-15-3	4-NONYL PHENOL BRANCHED	37% - 61%

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**SECTION 4) FIRST-AID MEASURES**

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**Inhalation:**

- Remove source of exposure or move person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- Eliminate all ignition sources if safe to do so.

**Skin Contact:**

- Take off immediately all contaminated clothing, shoes, and leather goods (e.g., watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 30 minutes or until medical aid is available. Call a POISON CENTER/doctor.
- IF exposed or concerned: Get medical advice/attention.

**Eye Contact:**

Rinse eyes cautiously with lukewarm, gently flowing water for duration of 30 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor/.

IF exposed or concerned: Get medical advice/attention.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER. If vomiting occurs naturally, lie on your side, in the recovery position.

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## **SECTION 5) FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Dry chemical, foam, or carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Unsuitable Extinguishing Media:**

No data available.

**Specific Hazards in Case of Fire:**

Vapor accumulations and spray mist may flash or explode if ignited.

Water should be used to cool containers to prevent pressure build up which could result in container rupture.

**Fire-fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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## **SECTION 6) ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

**Recommended Equipment:**

Positive pressure, full-face piece self-contained breathing apparatus SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Use explosive proof equipment.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

**Methods and Materials for Containment and Cleaning up:**

Dike area to contain spill.

Absorb spill with a non-flammable absorbant.

Place in closeable containers using non-sparking tools.

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## **SECTION 7) HANDLING AND STORAGE**

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**General:**

Wash hands after use.  
 Do not get in eyes, on skin or on clothing.  
 Do not breathe vapors or mists.  
 Use good personal hygiene practices.  
 Eating, drinking and smoking in work areas is prohibited.  
 Remove contaminated clothing and protective equipment before entering eating areas.  
 Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements:**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.  
 Ground and bond containers and receiving equipment. Avoid static electricity by grounding.  
 Avoid storage or use near sparks, heat or flame.

**SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Eye Protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**Skin Protection:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

None of the chemicals in Section 3 are regulated under "OSHA Carcinogen - OSHA Carcinogen", "OSHA ppm", "OSHA mg", "OSHA sppm", "OSHA smg", "ACGIH ppm", "ACGIH mg", "ACGIH sppm", "ACGIH smg", "OSHA Tables Z1\_Z2\_Z3", "OSHA Skin Designation", "niosh ppm", "niosh mg", "niosh sppm", "niosh smg", "ACGIH carcinogen", "ACGIH TLV Basis", "ACGIH Notations", "NIOSH carcinogen"

**SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

Density	8.05881 lb/gal
% Solids By Weight	49.81430%
VOC Actual	4.11362 lb/gal
Specific Gravity	0.96566
% VOC	51.04504%
Density VOC	4.11362 lb/gal

Appearance	liquid
Odor Threshold	N/A
Odor Description	strong solvent odor
pH	N/A

Water Solubility	Insoluble
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	1
Upper Explosion Level	7
Vapor Pressure	N/A
Vapor Density	heavier than air
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	334 °F
High Boiling Point	334 °F
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability:

Stable.

### Conditions to Avoid:

Avoid excessive heat, sparks, flame and contact with incompatible materials.

### Hazardous Reactions/Polymerization:

The chemical reaction that causes this product to cure releases heat, especially in closed mixing vessels.

### Incompatible Materials:

Strong oxidizers and acids.

### Hazardous Decomposition Products:

May produce fumes when heated to decomposition.

Fumes may contain carbon monoxide and oxides of nitrogen.

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## SECTION 11) TOXICOLOGICAL INFORMATION

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### Specific Target Organ Toxicity - Single Exposure:

No Data Available

### Specific Target Organ Toxicity - Repeated Exposure:

Reports have associated repeated & prolonged exposure to solvents with permanent brain & nervous system damage.

### Acute Toxicity:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Intentional misuse by deliberately concentrating & inhaling vapors of this product may be harmful or fatal.

### Skin Corrosion/Irritation:

Prolonged contact may produce temporary reddening of skin.

Prolonged or repeated exposure can cause moderate skin irritation, defatting and dermatitis.

Causes severe skin burns and eye damage

### Serious Eye Damage/Irritation:

Direct contact may cause eye irritation.

Eye contact will result in severe irritation, redness, tearing and blurred vision.

Causes serious eye damage

### Respiratory/Skin Sensitization:

May contain products that will irritate mucous membrane and respiratory tract.

Vapors are irritating to eyes, nose and throat.

Allergic responses may develop.

**Germ Cell Mutagenicity:**

No Data Available

**Carcinogenicity:**

Risk of lung cancer depends on duration and level of exposure.

**Reproductive Toxicity:**

Suspected of damaging fertility or an unborn child.

**Aspiration Hazard:**

No Data Available

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## SECTION 12) ECOLOGICAL INFORMATION

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**Toxicity:**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Very toxic to aquatic life

**Persistence and Degradability:**

No data available.

**Bio-accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other adverse effects:**

No data available.

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## SECTION 13) DISPOSAL CONSIDERATIONS

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**Waste Disposal:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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## SECTION 14) TRANSPORT INFORMATION

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**U.S. DOT Information:**

Proper Shipping Name: PAINT  
Identification Number : UN/NA 1263  
Hazard Class:3  
Packing group: II

**IMDG Information:**

Proper Shipping Name: PAINT  
Identification Number : UN/NA 1263  
Hazard Class:3  
Packing group: II  
Marine Pollutant : No data available

**IATA Information:**

Proper Shipping Name: PAINT  
Identification Number : UN/NA 1263  
Hazard Class:3  
Packing group: II

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**SECTION 15) REGULATORY INFORMATION**

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CAS	Chemical Name	% By Weight	Regulation List
0039423-51-3	Trimethylolpropane tris(poly(propylene glycol), amine terminated) ether	38% - 64%	SARA312,VOC,TSCA
0084852-15-3	4-NONYL PHENOL BRANCHED	37% - 61%	SARA312,TSCA

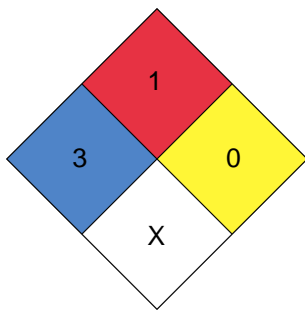
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**SECTION 16) OTHER INFORMATION**

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**General:**

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

**HMIS**

Chronic :



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