

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

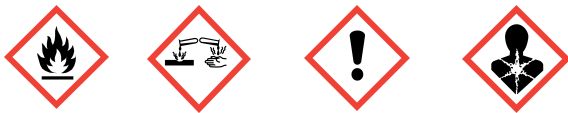
Product ID: MIRA 312C
Product Name: MIRATHANE WB OEM CLEAR SATIN
Revision Date: Jan 14, 2019 **Date Printed:** Jan 14, 2019
Version: 3.0 **Supersedes Date:** May 07, 2018
Manufacturer's Name: Mira
Address: 473 West 17th Street, Holland, MI 49423
Emergency Phone: 800-535-5053
Information Phone Number: 616-396-1275
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SECTION 2) HAZARDS IDENTIFICATION

Classification

Carcinogenicity - Category 1B
Flammable Liquids - Category 2
Flammables solids - Category 2
Germ Cell Mutagenicity - Category 1B
Reproductive Toxicity - Category 1B
Serious Eye Damage - Category 1
Skin Irritation - Category 2

Pictograms



Signal Word

Danger

Hazardous Statements - Physical

H225 - Highly flammable liquid and vapor
H228 - Flammable solid

Hazardous Statements - Health

H350 - May cause cancer
H340 - May cause genetic defects.
H360 - May damage fertility or an unborn child
H318 - Causes serious eye damage
H315 - Causes skin irritation

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

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242 - Use only non-sparking tools.

P243 - Take action to prevent static discharges.

P264 - Wash thoroughly after handling.

Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P370 + P378 - In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P321 - For specific treatment see section 4.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

Precautionary Statements - Storage

P405 - Store locked up.

P403 + P235 - Store in a well-ventilated place. Keep cool.

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.

Acute toxicity of 26.4% of the mixture is unknown

SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000064-17-5	ETHYL ALCOHOL	9% - 21%
0000872-50-4	N-METHYL-2-PYRROLIDONE	2% - 6%
0000121-44-8	TRIETHYLAMINE	0.2% - 3%
0000141-78-6	ETHYL ACETATE	0.0% - 0.8%
0000577-11-7	DI-2-ETHYLHEXYL SODIUM SULFOSUCCINATE	0.0% - 0.4%
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0.0% - 0.3%
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace
0064742-54-7	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	Trace
0000091-20-3	NAPHTHALENE	Trace

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Skin Contact

Take off all contaminated clothing, shoes, and leather goods (e.g., watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. If you feel unwell or are concerned : Get medical advice/attention.

SECTION 5) FIRE-FIGHTING MEASURES

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

In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Dried solids can burn.

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.

SECTION 6) ACCIDENTAL RELEASE MEASURES

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.

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 inert absorbent.

SECTION 7) HANDLING AND STORAGE

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.

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.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Below TLV limits, use a NIOSH approved, canister type vapor respirator.

Appropriate Engineering Controls

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

WORK/HYGIENIC PRACTICES

Wiping rags or other absorbents saturated with this product are potential sources of spontaneous combustion.

Store all rags in a closed, water-filled container or spread out and allow to dry completely before disposal.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	500	2000			1			(L)[N159] (L)[N800]	[(L) [N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];			[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];
AROMATIC HYDROCARBON MIXTURE >C9	500	2000			1			(L)[N159] (L)[N800]	[(L) [N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];			[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];
ETHYL ACETATE	400	1400			1			400				
ETHYL ALCOHOL	1000	1900			1					1000		A3
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	500	2000			1			(L)[N159] (L)[N800]	[(L) [N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];			[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];
NAPHTHALENE	10	50			1			10				A3
TRIETHYLAMINE	25	100			1			0.5		1		A4

Chemical Name	ACGIH Notations	ACGIH TLV Basis
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]U RT irr [N800]
AROMATIC HYDROCARBON MIXTURE >C9	[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]U RT irr [N800]
ETHYL ACETATE		URT & eye irr
ETHYL ALCOHOL	A3	URT irr
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	[A2 [N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]U RT irr [N800]
NAPHTHALENE	Skin; A3; BEI	URT irr; cataracts ; hemolytic anemia
TRIETHYLAMINE	Skin; A4	Visual impair;

(C) - Ceiling limit, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

The information in this Section does not list components that might have relevant ACGIH Notations, ACGIH TLV Basis, OSHA TWA (ppm), OSHA TWA (mg/m3), OSHA Tables (Z1, Z2, Z3), ACGIH TWA (ppm), ACGIH TWA (mg/m3), ACGIH Carcinogen regulatory values, if they are present at less than 10%. Please contact manufacturer for more information.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	8.10239 lb/gal
% Solids By Weight	27.48060%
% VOC	21.59490%
Density VOC	1.74970 lb/gal
VOC Regulatory	3.66363 lb/gal
VOC Regulatory	439.01300 g/l

Appearance	N.A.
Odor Threshold	N.A.
Odor Description	N.A.
pH	N.A.
Water Solubility	N.A.
Flammability	N/A
Flash Point Symbol	N.A.
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Freezing Point	N.A.
Melting Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.
Auto Ignition Temp	N.A.
Decomposition Pt	N.A.
Evaporation Rate	N.A.
Coefficient Water/Oil	N.A.

SECTION 10) STABILITY AND REACTIVITY

Stability

Stable.

Conditions to Avoid

None known.

Hazardous Reactions/Polymerization

No data available.

Incompatible Materials

None known.

Hazardous Decomposition Products

None known.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation

Causes skin irritation

Serious Eye Damage/Irritation

Causes serious eye damage

Respiratory/Skin Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability.

Skin contact to isocyanate monomer may lead to allergic lung reaction.

No Data Available

Germ Cell Mutagenicity

May cause genetic defects.

Carcinogenicity

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

May cause cancer

Reproductive Toxicity

May damage fertility or an unborn child

Specific Target Organ Toxicity - Single Exposure

No Data Available

Specific Target Organ Toxicity - Repeated Exposure

No Data Available

Aspiration Hazard

No Data Available

Acute Toxicity

May be harmful if swallowed. Sanding grinding dusts may be harmful if inhaled.

Serious Effects may be delayed following exposure.

No Data Available

0000064-17-5 ETHYL ALCOHOL

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m³ (4-hour exposure) (1, unconfirmed)

LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)

LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)

LD50 (oral, guinea pig): 5560 mg/kg (37)

0000091-20-3 NAPHTHALENE

LC50: Insufficient data

LD50 (oral, mouse): 533 mg/kg (male); 710 mg/kg (female) (1)

LD50 (oral, rat): 1780 mg/kg (2)

0000121-44-8 TRIETHYLAMINE

LC50 (mouse): 6000 mg/m³ (1452 ppm) (2-hr exposure) (1027 ppm - equivalent 4-hr exposure) (1)

LD50 (oral, rat): 460 mg/kg body weight (2)

LD50 (oral, mouse): 546 mg/kg body weight (1)

LD50 (dermal, rabbit): 410 mg/kg body weight (2)

0000141-78-6 ETHYL ACETATE

LC50 (rat): 19600 ppm (4-hour exposure); cited as 16000 ppm (6-hour exposure) (10)

LC50 (mouse): 10600 ppm (38100 mg/m³) (4-hour exposure); cited as 44000 mg/m³ (3-hour exposure) (8)

LD50 (oral, rat): 10200 mg/kg (cited as 11.3 mL/kg) (7); 5600 mg/kg (5,13)

LD50 (oral, mouse): 4100 mg/kg (11)

LD50 (oral, rabbit): 4900 mg/kg (9)

LD50 (oral, guinea pig): 5500 mg/kg (11)

LD50 (dermal, rabbit): Greater than 18000 mg/kg (cited as 20 mL/kg) (7)

0064742-54-7 MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC

LD50 (Rodent - rat, Oral) : >15 gm/kg ,Toxic effects : Details of toxic effects not reported other than lethal dose value.

LD50(Rodent- rabbit, Administration onto the skin) : >5 gm/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value.

SECTION 12) ECOLOGICAL INFORMATION

Bio-accumulative Potential

No data available.

Persistence and Degradability

No data available.

Mobility in Soil

No data available.

Toxicity

No data available.

No Data Available

Other adverse effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

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.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information

Proper Shipping Name: PAINT

Identification Number : UN/NA 1263

Hazard Class:3

Packing group: II

Special Shipping Requirements: Do not let freeze.

IMDG Information

Proper Shipping Name: PAINT
Identification Number : UN/NA 1263
Hazard Class:3
Packing group: II
Marine Pollutant : No data available
Special Shipping Requirements: Do not let freeze.

IATA Information

Proper Shipping Name: PAINT
Identification Number : UN/NA 1263
Hazard Class:3
Packing group: II
Special Shipping Requirements: Do not let freeze.

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	38% - 64%	DSL,TSCA
0000064-17-5	ETHYL ALCOHOL	9% - 21%	Canada_NPRI,DSL,SARA312,VOC,TSCA
0000872-50-4	N-METHYL-2-PYRROLIDONE	2% - 6%	Canada_NPRI,DSL,SARA312,VOC,TSCA,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental
0000121-44-8	TRIETHYLAMINE	0.2% - 3%	Canada_NPRI,DSL,HAPS,SARA312,VHAPS,VOC,TSCA
0000141-78-6	ETHYL ACETATE	0.0% - 0.8%	Canada_NPRI,DSL,SARA312,VOC,TSCA
0000577-11-7	DI-2-ETHYLHEXYL SODIUM SULFOSUCCINATE	0.0% - 0.4%	DSL,SARA312,TSCA
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	0.0% - 0.3%	Canada_NPRI,DSL,SARA312,VOC,TSCA
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace	Canada_NPRI,DSL,SARA312,VOC,TSCA
0064742-54-7	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	Trace	DSL,SARA312,VOC,TSCA
0000091-20-3	NAPHTHALENE	Trace	Canada_NPRI,DSL,HAPS,SARA312,VHAPS,VOC,TSCA,CA_Carcinogen,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer

The information in this Section does not list components that might have relevant Canada_NPRI, DSL, SARA312, TSCA, VOC regulatory values, if they are present at less than 10%. Please contact manufacturer for more information.

SECTION 16) OTHER INFORMATION

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

Health	* 2
FLAMMABILITY	1
Physical Hazard	1
Personal Protection	G

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

Version 3.0:

Revision Date: Jan 14, 2019

DISCLAIMER

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