

# SAFETY DATA SHEET

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

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**Product ID:** MIRA 343T  
**Product Name:** MIRA-CRYLIC MID TONE - SOFT GLOSS  
**Revision Date:** Jun 03, 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 Irritation - Category 3  
Eye Irritation - Category 2A  
Germ Cell Mutagenicity - Category 1B  
Carcinogenicity - Category 1B

**Pictograms:**



**Signal Word:**

Danger

**Hazardous Statements - Health:**

H316 - Causes mild skin irritation  
H319 - Causes serious eye irritation  
H340 - May cause genetic defects.  
H350 - May cause cancer

**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:**

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.

**Precautionary Statements - Response:**

P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

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

#### 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.

**Acute toxicity of 25.6% of the mixture is unknown**

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### SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Chemical Name	% By Weight
0007732-18-5	WATER	34% - 56%
proprietary	resin solids	19% - 32%
0013463-67-7	TITANIUM DIOXIDE	9% - 21%
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	3% - 6%
0025265-77-4	2,2,4-TRIMETHYL PENTANEDIOL 1,3-MONOISOBUTYRAT	0.2% - 1.5%
0112926-00-8	SILICA - PRECIPITATED	0.1% - 1.2%
0007631-86-9	SILICA, AMORPHOUS	0.1% - 0.9%
0008052-41-3	STODDARD SOLVENT	0.0% - 0.2%
0000124-68-5	2-AMINO-2-METHYL-1-PROPANOL	0.0% - 0.2%
0001314-23-4	ZIRCONIA OXIDE	0.0% - 0.2%
0000112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER	Trace
0064741-88-4	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (MILD) HEAVY PARAFFINIC	Trace
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Trace
0000050-00-0	FORMALDEHYDE	Trace

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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.

Get medical advice/attention if you feel unwell or are concerned.

#### Skin Contact:

Rinse/wash with lukewarm, gently flowing water (and mild soap) for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

#### Eye Contact:

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

If you feel unwell or if concerned: Get medical advice/attention.

#### Ingestion:

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

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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:**

Product will not burn but may spatter if temperature exceeds the boiling point of water.  
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.

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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.

**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.

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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.

**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.  
Keep from freezing.

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

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**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.

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	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
DIETHYLENE GLYCOL MONOBUTYL ETHER												
ETHYLENE GLYCOL MONOBUTYL ETHER	50	240			1		1	5	24			
FORMALDEHYDE	0.75 (a)		2 / 15minutes		1,2	1		0.016b				1
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (MILD) HEAVY PARAFFINIC	500	2000			1							
SILICA - PRECIPITATED	20 (b)	80 mg/m3 percent SiO2+2			1,3				6			
SILICA, AMORPHOUS	20 (b)	80 mg/m3 percent SiO2+2			1,3				6			
STODDARD SOLVENT	500	2900			1				350			
TITANIUM DIOXIDE		15			1			b				1
ZIRCONIA OXIDE		5			1							

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
DIETHYLENE GLYCOL MONOBUTYL ETHER	10(IFV)						
ETHYLENE GLYCOL MONOBUTYL ETHER	20	97			A3	A3; BEI	Eye & URT irr
FORMALDEHYDE			C 0.3		A2	SEN; A2	URT & eye irr
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (MILD) HEAVY PARAFFINIC							
SILICA - PRECIPITATED							
SILICA, AMORPHOUS							

STODDARD SOLVENT	100	572					Eye, skin, & kidney dam; nausea; CNS impair
TITANIUM DIOXIDE		10			A4	A4	LRT irr
ZIRCONIA OXIDE		5		10	A4	A4	

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

Density	9.97568 lb/gal
% Solids By Weight	36.90000%
VOC Actual	0.68355 lb/gal
Specific Gravity	1.19535
% VOC	6.85220%
Density VOC	0.68355 lb/gal

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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	NA
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

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability:

Stable.

### Conditions to Avoid:

Not Available.

### Hazardous Reactions/Polymerization:

No data available.

### Incompatible Materials:

Strong oxidizers.

### Hazardous Decomposition Products:

Burning of dried solids may give off oxides of carbon and nitrogen.

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**SECTION 11) TOXICOLOGICAL INFORMATION**

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**Specific Target Organ Toxicity - Repeated Exposure:**

No Data Available

**Specific Target Organ Toxicity - Single Exposure:**

No Data Available

**Acute Toxicity:**

Inhalation may produce symptoms of headache and nausea in poorly ventilated areas.

**Skin Corrosion/Irritation:**

Prolonged contact may produce temporary reddening of skin.

Causes mild skin irritation

**Serious Eye Damage/Irritation:**

Direct contact may cause eye irritation.

Causes serious eye irritation

**Respiratory/Skin Sensitization:**

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

**Germ Cell Mutagenicity:**

May cause genetic defects.

**Carcinogenicity:**

May cause cancer

**Reproductive Toxicity:**

No Data Available

**Aspiration Hazard:**

No Data Available

## 0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)

LC50 (male rat): 486 ppm (4-hour exposure) (2)

LD50 (oral, male weanling rat): 3000 mg/kg (1)

LD50 (oral, 6-week old male rat): 2400 mg/kg (1)

LD50 (oral, yearling male rat): 560 mg/kg (1)

LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1) LD50 (oral, male mouse): 1230 mg/kg (1)

LD50 (oral, rabbit): 320 mg/kg (1)

LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

## 0000050-00-0 FORMALDEHYDE

LC50 (rat): 8000 ppm (4-hour exposure) (24)

LD50 (oral, male rat): 2500 mg/kg (25)

LD50 (oral, rat): 2920 mg/kg (26)

LD50 (dermal, guinea pig): greater than 15000 mg/kg (cited as greater than 0.94 mL/kg) (27)

LD50 (dermal, rat): 5070 mg/kg (28, unconfirmed)

## 0008052-41-3 STODDARD SOLVENT

LC50 (rat): greater than 5500 mg/m<sup>3</sup> (880 ppm) (whole body exposure for 4 hours) (1)

LC50 (rat): greater than 8200 mg/m<sup>3</sup> (1300 ppm) (2)

LD50 (oral, rat): greater than 5 g/kg (1)

LD50 (dermal, rabbit): greater than 3 g/kg (1)

**Chronic Exposure**

0000050-00-0 FORMALDEHYDE

Formaldehyde is classified as a Suspected Human Carcinogen (A2) by ACGIH, and as Probably Carcinogenic to Humans (Group 2A) by IARC. Formaldehyde has caused cancer in test animals.

Formaldehyde has caused cancer in test animals at high concentrations (5-15ppm).

**Potential Health Effects - Miscellaneous**

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Recurrent overexposure may result in liver and kidney injury.

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

## 0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.?

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**SECTION 12) ECOLOGICAL INFORMATION**


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**Persistence and Degradability:**

No data available.

**Bio-accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Toxicity:**

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:**

Not regulated by the US Department of Transportation.

**IMDG Information:**

No data available.

**IATA Information:**

No data available.

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**SECTION 15) REGULATORY INFORMATION**


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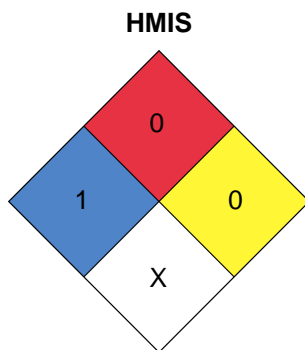
CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	34% - 56%	TSCA
proprietary	resin solids	19% - 32%	SARA312
0013463-67-7	TITANIUM DIOXIDE	9% - 21%	SARA312,TSCA,CA_Carcinogen,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	3% - 6%	Canada_NPRI,SARA312,SARA313,VOC,TSCA,CA_TAC_Carcinogen

0025265-77-4	2,2,4-TRIMETHYL PENTANEDIOL 1,3-MONOISOBUTYRAT	0.2% - 1.5%	SARA312,VOC,TSCA
0112926-00-8	SILICA - PRECIPITATED	0.1% - 1.2%	SARA312
0007631-86-9	SILICA, AMORPHOUS	0.1% - 0.9%	SARA312,TSCA
0008052-41-3	STODDARD SOLVENT	0.0% - 0.2%	Canada_NPRI,SARA312,VOC,TSCA
0000124-68-5	2-AMINO-2-METHYL-1-PROPANOL	0.0% - 0.2%	SARA312,VOC,TSCA
0001314-23-4	ZIRCONIA OXIDE	0.0% - 0.2%	SARA312,TSCA
0000112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER	Trace	Canada_NPRI,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA,CA_TAC_Carcinogen
0064741-88-4	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (MILD) HEAVY PARAFFINIC	Trace	SARA312,VOC,TSCA
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Trace	Canada_NPRI,SARA312,VOC,TSCA
0000050-00-0	FORMALDEHYDE	Trace	Canada_NPRI,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA,CA_TAC_Carcinogen,CA_Carcinogen,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer

## 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.



Chronic :

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