

Material Safety Data Sheet

Revision Date: 20-Jun-2013 Revision Number: 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEGAVAR PLUS HIGH SOLIDS WW CONVERSION VARNISH

SEMI-GLOSS

Product Code 1M-6306FR
Product Class FINISH COATING

Color All

Manufacturer

Complementary Coatings Corp.

360 Route 206 Flanders,NJ 07836

Phone: (800)-225-5554 Fax: (888)-248-2143 www.lenmar-coatings.com **Emergency Telephone Number(s)**

CANUTEC: 613-996-6666

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Isobutyl alcohol	78-83-1	10 - 30%
Ethanol	64-17-5	10 - 30%
n-Butyl acetate	123-86-4	7 - 13 %
Xylene	1330-20-7	5 - 10%
Toluene	108-88-3	3 - 7%
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5%
Isopropyl alcohol	67-63-0	1 - 5%
Ethyl benzene	100-41-4	1 - 5%
Formaldehyde	50-00-0	0.1 - 0.25%
2-Butoxyethanol	111-76-2	0.1 - 0.25%

3. HAZARDS IDENTIFICATION

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Emergency Overview DANGER

Flammable. Vapors may cause flash fire. Harmful if swallowed. Vapor harmful. Harmful by inhalation. Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.. Irritating to eyes. May cause allergic respiratory reaction.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components.

Appearance liquid Odor solvent

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes Avoid contact with eyes. Vapor may cause irritation with symptoms of burning and

tearing. Causes eye irritation. Severe eye irritation. Causes burns.

Skin Avoid contact with skin. May cause skin irritation and/or dermatitis. Moderate skin

irritation. May be absorbed through the skin in harmful amounts. May cause allergic

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skin reaction.

Inhalation Avoid breathing vapors or mists. Harmful by inhalation. May cause irritation of

respiratory tract. High vapor / aerosol concentrations are irritating to the eyes, nose,

throat and lungs and may cause headaches, dizziness, drowsiness,

unconsciousness, and other central nervous system effects.

Ingestion Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small

amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Chronic Effects Avoid repeated exposure. Prolonged exposure may cause chronic effects. Repeated

contact may cause allergic reactions in very susceptible persons.

Possible Cancer Hazard. Contains Formaldehyde which may cause cancer based on

animal data. Risk of cancer depends on duration and level of exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Skin disorders. Kidney disorders. Liver disorders.

HMIS Health: 2* Flammability: 3 Reactivity: 0 PPE: -

HMIS Legend

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- * Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special"

handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact

lenses and continue flushing for at least 15 minutes. Keep eye wide open while

rinsing. Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while

removing all contaminated clothing and shoes, If skin irritation persists, call a

physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

If not breathing, give artificial respiration. Call a physician immediately

Ingestion Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

Immediate medical attention is required.

Notes To Physician Treat symptomatically.

Protection Of First-Aiders Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties Vapors may travel considerable distance to a source of

ignition and flash back. Vapors may cause flash fire.

Suitable Extinguishing Media Foam, dry powder or water. Use extinguishing measures

that are appropriate to local circumstances and the

surrounding environment.

Protective Equipment And Precautions For Firefighters As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

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and full protective gear.

Specific Hazards Arising From The Chemical Flammable. Flash back possible over considerable distance.

Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if

exposed to fire or extreme heat. Thermal decomposition can

lead to release of irritating gases and vapors.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge Yes

Flash Point Data

Flash Point (°F) 58
Flash Point (°C) 14

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Flash Point Method PMCC

Flammability Limits In Air

Upper Explosion LimitNot availableLower Explosion LimitNot available

NFPA Health: 2 Flammability: 3 Instability: 0 Special: -

NFPA Legend

- 0 Not Hazardous
- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Take precautions to prevent flashback. Ground and

bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and

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clothing. Use personal protective equipment.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if

significant spillages cannot be contained.

Methods For Clean-UpDam up. Soak up with inert absorbent material. Use a non-sparking or explosion

proof means to transfer material to a sealed, appropriate container for disposal.

Clean contaminated surface thoroughly.

Other Information None known

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do

not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-

up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and

pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away

from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep

in properly labeled containers. Keep out of the reach of children.

Technical measures/Precautions Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable

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Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	Alberta	British Columbia		Quebec
Isobutyl alcohol	50 ppm - TWA	152 mg/m ³ - TWA 50 ppm - TWA	50 ppm - TWA	150 mg/m ³ - TWAEV 50 ppm - TWAEV	152 mg/m³ - TWAEV
		50 ppiii - TVVA		00 ppin 1 11/12 V	50 ppm - TWAEV
Ethanol	1000 ppm - STEL	1000 ppm - TWA 1880 mg/m ³ - TWA	1000 ppm - TWA	1000 ppm - TWAEV 1900 mg/m³ - TWAEV	1000 ppm - TWAEV 1880 mg/m³ - TWAEV
n-Butyl acetate	150 ppm - TWA 200 ppm - STEL	150 ppm - TWA 713 mg/m³ - TWA 200 ppm - STEL 950 mg/m³ - STEL	20 ppm - TWA	150 ppm - TWAEV 710 mg/m³ - TWAEV 200 ppm - STEV 950 mg/m³ - STEV	150 ppm - TWAEV 713 mg/m³ - TWAEV 200 ppm - STEV 950 mg/m³ - STEV
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 434 mg/m³ - TWA 150 ppm - STEL 651 mg/m³ - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWAEV 435 mg/m³ - TWAEV 150 ppm - STEV 650 mg/m³ - STEV	100 ppm - TWAEV 434 mg/m³ - TWAEV 150 ppm - STEV 651 mg/m³ - STEV
Toluene	20 ppm - TWA	188 mg/m³ - TWA 50 ppm - TWA Substance may be readily absorbed through intact skin	20 ppm - TWA Adverse reproductive effect	20 ppm - TWAEV	188 mg/m³ - TWAEV 50 ppm - TWAEV Skin absorption can contribute to overall exposure.
Propylene glycol monomethyl ether acetate	N/E	N/E	50 ppm - TWA 75 ppm - STEL	270 mg/m³ - TWAEV 50 ppm - TWAEV	N/E
Isopropyl alcohol	200 ppm - TWA 400 ppm - STEL	400 ppm - TWA 983 mg/m³ - TWA 1230 mg/m³ - STEL 500 ppm - STEL	200 ppm - TWA 400 ppm - STEL	200 ppm - TWAEV 400 ppm - STEV	400 ppm - TWAEV 985 mg/m³ - TWAEV 1230 mg/m³ - STEV 500 ppm - STEV

Ethyl benzene	20 ppm - TWA	100 ppm - TWA 434 mg/m³ - TWA	20 ppm - TWA	100 ppm - TWA 125 ppm - STEL	100 ppm - TWAEV 434 mg/m ³ -
		125 ppm - STEL			TWAEV
		543 mg/m ³ - STEL			125 ppm - STEV
					543 mg/m ³ - STEV
Formaldehyde	0.3 ppm - Ceiling	0.75 ppm - TWA	0.3 ppm - TWA	1.0 ppm - STEV	2 ppm - Ceiling
	Sensitizer	0.92 mg/m ³ - TWA	1 ppm - Ceiling	1.5 ppm - CEV	3 mg/m ³ - Ceiling
		2 ppm - Ceiling	Sensitizer		
		2.5 mg/m ³ - Ceiling			
2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV	20 ppm - TWAEV
		97 mg/m ³ - TWA		Absorption through	97 mg/m ³ -
		Substance may be		skin, eyes, or	TWAEV
		readily absorbed		mucous membranes	
		through intact skin			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Alberta - Alberta Occupational Exposure Limits

British Columbia - British Columbia Occupational Exposure Limits

Ontario - Ontario Occupational Exposure Limits Quebec - Quebec Occupational Exposure Limits

N/E - Not established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Skin Protection Respiratory Protection Tightly fitting safety goggles. Face-shield.

Long sleeved clothing. Chemical resistant apron. Antistatic boots. Impervious gloves. Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

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Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odor solvent 7.9 - 8.3Density (lbs/gal) **Specific Gravity** 0.96 - 0.98Not available pН **Viscosity (centistokes)** Not available **Evaporation Rate** Not available Not available **Vapor Pressure Vapor Density** Not available Wt. % Solids 45 - 55 Vol. % Solids 35 - 45 Wt. % Volatiles 45 - 55 Vol. % Volatiles 55 - 65

9. PHYSICAL AND CHEMICAL PROPERTIES

VOC Regulatory Limit (g/L)<550</th>Boiling Point (°F)167Boiling Point (°C)75

Freezing Point (°F) Not available Freezing Point (°C) Not available

Flash Point (°F) 58
Flash Point (°C) 14
Flash Point Method PMCC
Upper Explosion Limit Not available
Lower Explosion Limit Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions. Hazardous polymerisation

does not occur.

Conditions To Avoid Keep away from open flames, hot surfaces, static electricity

and sources of ignition. Sparks. Elevated temperature.

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Incompatible Materials Incompatible with strong acids and bases and strong

oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating

gases and vapors.

Possibility Of Hazardous Reactions

None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Isobutyl alcohol

LD50 Oral: 2460 mg/kg (Rat) LD50 Dermal: 3400 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 19200 mg/m³ (Rat, 4 hr.)

Ethanol

LD50 Oral: 7060 mg/kg (Rat)

LC50 Inhalation (Vapor): 20000 ppm (Rat, 10 hr.)

n-Butyl acetate

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LD50 Oral: 10768 mg/kg (Rat)

LD50 Dermal: > 17600 mg/kg (Rabbit) LC50 Inhalation (Vapor): 390 ppm (Rat, 4 hr.) Sensitization: non-sensitizing (guinea pig)

Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Sensitization: No sensitizing effects known.

Toluene

LD50 Oral: 636 mg/kg (Rat)

LD50 Dermal: 14100 µL/kg (Rabbit)

LC50 Inhalation (Vapor): 49000 mg/m³ (Rat, 4 hr.)

Propylene glycol monomethyl ether acetate

LD50 Oral: 8532 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 4345 ppm

Isopropyl alcohol

LD50 Oral: 5,000-5,045 mg/kg (Rat) LD50 Dermal: 12,800 mg/kg (Rabbit) LC50 Inhalation (Vapor): 16,000 ppm (Rat)

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.) Sensitization: No sensitizing effects known.

Formaldehyde

LD50 Oral: 100 - 580 mg/kg (Rat) LD50 Dermal: 270 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 578 mg/m³ (Rat, 2 hr.) Sensitization: skin - positive (guinea pig)

2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat) LD50 Dermal: 220 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 2.2 mg/L (Rat, 4 hr.)

Sensitization: No sensitizing effects known.

Chronic Toxicity

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

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Chemical Name	ACGIH	IARC	NTP	OSHA
				Carcinogen
	A3 - Confirmed			
Ethanol	Animal			
	Carcinogen with			
	Unknown			
	Relevance to			
	Humans			
	A3 - Confirmed	2B - Possible		Listed
Ethyl benzene	Animal	Human		
	Carcinogen with	Carcinogen		
	Unknown			
	Relevance to			
	Humans			
	A2 - Suspected	1 - Human	Reasonably	Listed
Formaldehyde	Human	Carcinogen	Anticipated	
	Carcinogen		Human	
			Carcinogen	
	A3 - Confirmed			
2-Butoxyethanol	Animal			
	Carcinogen with			
	Unknown			
	Relevance to			
	Humans			

 Possible Cancer Hazard. Contains Formaldehyde which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component

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Acute Toxicity to Fish

No information available

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

No information available

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

No information available

n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. **DISPOSAL CONSIDERATIONS**

Waste Disposal Method Dispose of in accordance with federal, state, provincial, and local regulations. Local

requirements may vary, consult your sanitation department or state-designated

environmental protection agency for more disposal options.

Emptied containers may retain product residue. Follow label warnings even after **Empty Container Warning**

container is emptied. Residual vapors may explode on ignition.

14. TRANSPORT INFORMATION

TDG

Proper Shipping Name Paint

Hazard Class

3

14. TRANSPORT INFORMATION			
UN-No	UN1263		
Packing Group	II		

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ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

United States TSCA Yes - All components are listed or exempt.

Canada DSL Yes - All components are listed or exempt.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

This product contains the following Parts 1-4 NPRI chemicals:

Chemical Name	CAS-No	Weight % (max)
Isobutyl alcohol	78-83-1	10 - 30%
Ethanol	64-17-5	10 - 30%
n-Butyl acetate	123-86-4	7 - 13 %
Xylene	1330-20-7	5 - 10%
Toluene	108-88-3	3 - 7%
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5%
Isopropyl alcohol	67-63-0	1 - 5%
Ethyl benzene	100-41-4	1 - 5%
Formaldehyde	50-00-0	0.1 - 0.25%
2-Butoxyethanol	111-76-2	0.1 - 0.25%

This product may contain trace amounts of (other) NPRI Parts I-4 reportable chemicals. Contact the preparer for further information.

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

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REGULATORY INFORMATION Weight % (max) **Chemical Name** CAS-No 64-17-5 Ethanol 10 - 30% 7 - 13 % n-Butyl acetate 123-86-4 **Xylene** 1330-20-7 5 - 10% 3 - 7% Toluene 108-88-3 Propylene glycol monomethyl ether acetate 108-65-6 1 - 5% Isopropyl alcohol 67-63-0 1 - 5% Formaldehyde 50-00-0 0.1 - 0.25% 2-Butoxyethanol 111-76-2 0.1 - 0.25%

This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact the preparer for further information.

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials



16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/prod/paint-peinture-eng.php.

Prepared By Product Stewardship Department

Complementary Coatings Corp.

dba Insl-X

101 Paragon Drive Montvale, NJ 07645 Phone: 1-800-225-5554

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Revision Summary No information available

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Disclaimer

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End of MSDS