

Safety Data Sheet

Prepared according to Federal Register / vol. 77, No. 58/ Monday, March 26, 2012 / Rules and Regulations

for
Coatings, Thinners, & Solvent Based Materials

Section 1 - Company & Product Identification

Product Name: Epoxy Primer Part B Product Code: 1006-B

Trade Name: MIL-P-23377E & F TY-I, CL-1 Part B

Manufactured by:

Spectrum Coatings Laboratories, Inc.
217 Chapman Street
Providence, RI 02905
ph:401-781-4847
fax:401-781-1075
web: spectrumcoatings.us
email: paintman97@gmail.com

Emergency Contact Information:

Daytime Information: 8:00am - 4:30pm EST
401-781-4847

24 Hour Emergency Contact:
Chemtrec - 800-424-9300
International: +1 703-527-3887
Emergency Information Only

Product Use: Professional Industrial and Commercial Spray Painting

Not recommended for: Commodity General Public Use

Section 3 - Hazards Identification

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm ² /s at 40° C.

GHS Hazards

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/all motorized electrical equipment being used in the area where this material is being handled
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash all exposed areas thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see Section 4 and 11 of SDS)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously 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
P332+P313	If skin irritation occurs: Get medical advice/attention
P370+P378	In case of fire: Use CO ₂ , Foam, or Chemical Extinguisher for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to suitable waste stream in accordance with local, regional, national, and international regulations.

Signal Word: **Danger**



Section 2 - Hazardous Ingredient Information

Chemical Name	CAS number	Weight Concentration %
1-Methoxy-2-Propanol	107-98-2	20.00% - 30.00%
Isopropyl Alcohol	67-63-0	20.00% - 30.00%
Trade Secret	N/A	10.00% - 20.00%
Toluol	108-88-3	10.00% - 20.00%
Aliphatic Petroleum Distillate	64742-89-8	10.00% - 20.00%
Normal Butyl Alcohol	71-36-3	10.00% - 20.00%

Section 4 - Emergency First Aid Measures

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical

attention.

Eye Contact: If symptoms develop, move individual away from exposure, and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or if there is any visual difficulty, seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Note to Physician: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (ie; asthma-like conditions), skin (redness or rash-like symptoms, irritation)

Section 5 - Fire Fighting Measures

Flash Point: -10 C (14 F)

LEL: 1.00

UEL: 12.00

Extinguishing Media: Use foam, Carbon Dioxide, or Dry Chemical fire fighting apparatus.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames, or other ignition sources at locations distant from material handling area. Never use welding or cutting torch on or near containers even when empty, as product and/or product residue can ignite explosively.

Hazardous Products of Combustion: May form oxides of carbon, and nitrogen.

Special Fire Fighting Procedures: Treat all fires as chemical in nature. The use of water may be unsuitable as an extinguishing media, but will be helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

Fire Fighting Equipment: Firemen and emergency responders: wear full turnout gear or Level A equipment, including positive-pressure, self-contained breathing apparatus (SCBA), and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

Section 6 - Accidental Release Measures

Spill and Leak Procedures: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

Small Spills: Ventilate area, and keep sources of ignition and hot metal surfaces isolated from the spill. Absorb liquid using vermiculite, sawdust, speedy-dry, or other suitable floor absorbant material. Use only non-sparking tools to collect and transfer to a suitable container for disposal in accordance with local, and federal regulations.

Large Spills: Eliminate all ignition sources, and ventilate area. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, and prevent material from entering drains, sewers, streams or other bodies of water. Dike spill area with suitable absorbant material or chemical booms to limit spreading. If run-off occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product, and transfer contaminated absorbent, soil and other materials to containers for disposal in accordance with local, state, and federal regulations. Note; use only non-sparking equipment to clean up spills.

Section 7 - Handling and Storage Conditions

Handling Precautions: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers dry and closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Sufficiently ground container when transferring material from one container to another.

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures and pressures, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Any use of this product in elevated temperature, pressurized, or vacuum

process should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage Requirements: Store this material in tightly sealed original containers only, in a segregated area with adequate ventilation to prevent a build-up of "fumes" that could pose a safety hazard with regard to personal exposure and fire. Keep all sources of ignition away from storage area, and store material at temperatures between 50 to 80 degrees F.

Section 8 - Exposure Controls & Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
1-Methoxy-2-Propanol 107-98-2	VPEL 100ppm - TWA VPEL 150ppm - STEL	TLV 50ppm - TWA TLV 100ppm - STEL	Not Established
Isopropyl Alcohol 67-63-0	PEL 400ppm - TWA VPEL 400ppm - TWA VPEL 500ppm - STEL	TLV 200ppm - TWA TLV 400ppm - STEL	Not Established
Trade Secret N/A	OELs not established	OELs not established	Not Established
Toluol 108-88-3	PEL 200ppm - TWA PEL 300ppm - Ceiling VPEL 100ppm - TWA VPEL 150ppm - STEL	TLV 20ppm - TWA	Not Established
Aliphatic Petroleum Distillate 64742-89-8	OELs not established	OELs not established	Not Established
Normal Butyl Alcohol 71-36-3	PEL 100 ppm - TWA VPEL 50 ppm - Ceiling	TLV 20 ppm - TWA	Not Established

Engineering Controls: Ensure that any processing ovens are vented to prevent the introduction of fumes into the workplace, and to prevent a build up of fume within the oven. Use only explosion proof equipment, and ground containers and transfer equipment. Use only chemically resistant transfer equipment, and measuring containers.

Recommended Ventilation: General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted averages. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required.

Eye Protection: The use of safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact, irritation, or injury. The availability of eye wash stations when using this product is highly recommended.

Skin Protection: The use of chemical resistant gloves is recommended to prevent repeated or prolonged contact with the skin. Wear impervious clothing and boots. The use of chemical aprons is advised when working with and/or transferring these materials. The availability of safety showers in work areas is recommended.

Respiratory Protection: If workplace exposure limits of product or any component is exceeded, the use of a NIOSH/MSHA respirator will be necessary. In general the use of an organic vapor cartridge with a dust/mist pre-filter will be sufficient. In the absence of proper environmental controls, a NIOSH/MSHA approved air supplied respirator is advised.

Contaminated Equipment: Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 9 - Physical & Chemical Properties

This mixture typically exhibits the following properties under normal circumstances.

<p>Appearance Viscous liquid either colored or clear depending on product.</p> <p>Physical State Liquid</p> <p>Evaporation Rate Slower than ether.</p> <p>% Volume Volatile 82.59</p>	<p>Odor Strong solvent odor.</p> <p>Vapor Density Heavier than air.</p> <p>Boiling Range 80 to 125 °C</p> <p>Specific Gravity (SG) 0.856</p>
---	--

Formula Lb / Gal 7.14 gms VOC/Liter Less Water 687	Lbs VOC/Gallon Less Water 5.73
---	---------------------------------------

Section 10 - Reactivity Data

Components of this mixture may be incompatible with various materials, and will fume certain combustion products. It is recommended that only Spectrum's authorized materials are combined with Spectrum's finished products.

STABLE

The following incompatibilities may exist with components of this product.

- Strong oxidizing agents
- Mineral acids and strong oxidizers
- Alkali metals, aluminum, Halogens, lead, strong mineral acids, strong oxidizing agents.
- Avoid contact with; acetaldehyde, acids, chlorine, ethylene oxide, isocyanates, strong oxidizing agents, Do not use with aluminum equipment at temperatures above 120 F.

Thermal decomposition in the presence of air may yield the following;

- Oxides of carbon, such as carbon dioxide & carbon monoxide.
- Hazardous polymerization will not occur.

Section 11 - Toxicological Information
 (IF NO DATA IS AVAILABLE, THIS SECTION WILL BE BLANK)

Mixture Toxicity

- Oral Toxicity LD50: 2,020mg/kg
- Dermal Toxicity LD50: 4,695mg/kg
- Inhalation Toxicity LC50: 82mg/L

Component Toxicity

- 107-98-2 1-Methoxy-2-Propanol
Oral LD50: 4,016 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 25 mg/L (Ra)
- 67-63-0 Isopropyl Alcohol
Oral LD50: 4,396 mg/kg (Rat)
- 108-88-3 Toluol
Oral LD50: 636 mg/kg (Rat)
- 64742-89-8 Aliphatic Petroleum Distillate
Oral LD50: 5,000 mg/kg (Mouse) Dermal LD50: 3,000 mg/kg (Rabbit)
- 71-36-3 Normal Butyl Alcohol
Oral LD50: 790 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit)

Primary Routes of Entry:

- Inhalation Skin Contact Eye Contact Ingestion

Target Organs:

- Blood Kidneys Liver Lungs Central Nervous System Skin

Effects of Overexposure

- Eye Contact Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.
- Skin Contact May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use .
- Ingestion Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation	Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.
Symptoms of Exposure	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: mouth and throat irritation, stomach or intestinal upset, irritation of the nose, throat & airways, central nervous system depression, high blood sugar, coma.
Target Organ Effects	No Data This material shortens the time of onset or worsens the liver and kidney damage induced by other chemicals. Overexposure to this material has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities.
Cancer Information	Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is NOT listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.
Developmental Info.	This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of this product during pregnancy can cause birth defects in humans.

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

Section 12 - Ecological Information

(IF NO DATA IS AVAILABLE, THIS SECTION WILL BE BLANK)

Component Ecotoxicity

Section 13 - Waste Disposal Considerations

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

Section 14 - Transportation Information

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint; Flammable Liquid	UN 1263	II	3

Section 15 - Regulatory Information

Other regulatory information is listed where applicable.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

108-88-3 Toluene 10 to 20 %

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

- Normal Butyl Alcohol 10 to 20 %
- Toluene 10 to 20 %
- Isopropyl Alcohol 20 to 30 % Hazardous
- 1-Methoxy-2-Propanol 20 to 30 %

New Jersey Worker and Community Right To Know Hazardous Substance List: The following substances appear on the New Jersey Right To Know Hazardous Substance List.

- Normal Butyl Alcohol 10 to 20 %
- Toluene 10 to 20 %
- Isopropyl Alcohol 20 to 30 %
- 1-Methoxy-2-Propanol 20 to 30 %

Commonwealth of Pennsylvania Worker and Community Right-To-Know Act: This product contains the following chemicals which appear on the Pennsylvania Hazardous Substance List:

- 71-36-3
- 108-88-3
- 67-63-0
- 107-98-2

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
----------------	-------------------	------------------------------

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

- 108-88-3 Toluol 10 - 20%
- 71-36-3 Normal Butyl Alcohol 10 - 20%
- 67-63-0 Isopropyl Alcohol 20 - 30%

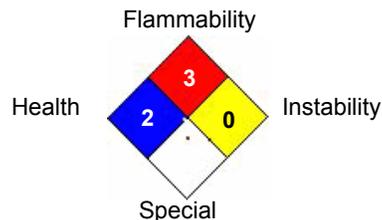
Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	J

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



NON-WARRANTY. The information presented in this publication is based upon the research and experience Spectrum Coatings and its suppliers. No representation or warranty is made concerning the accuracy or completeness of the information presented in this publication. Spectrum Coatings makes no warranty or representation of any kind, express or implied, including without limitation any warranty of merchantability or fitness for any particular purpose, and no warranty or representation shall be implied by law or otherwise. Any products sold by Spectrum Coatings are not warranted as suitable for any particular purpose to the buyer. The suitability of any products for any purpose particular to the buyer is for the buyer to determine. Spectrum Coatings shall in no event be liable for any special, incidental, or consequential damages.

Date Prepared: 6/8/2015