Safety Data Sheet

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

Section 1 - Company & Product Identification

Product Name: MIL-DTL-15090E Enamel Product Code: 31793

Trade Name: Low VOC Formula

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 2 - Hazards Identification

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
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
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C.

GHS Hazards

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation
H340	May cause genetic defects
H350	May cause cancer

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
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P331	Do NOT induce vomiting
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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 CO2, 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 3 - Composition/information on ingredients

Chemical Name	CAS number	Weight Concentration %
Ground Limestone	1317-65-3	30.00% - 40.00%
Trade Secret	N/A	20.00% - 30.00%
Stoddard Solvent	8052-41-3	10.00% - 20.00%
Titanium Dioxide	13463-67-7	1.00% - 5.00%
1-chloro-4-(trifluoromethyl)-benzene	98-56-6	1.00% - 5.00%
Aliphatice Petroleum Distillate	64742-89-8	1.00% - 5.00%
Zinc Oxide	1314-13-2	1.00% - 5.00%
Calcium Magnesium Silicate Hydrate	14807-96-6	1.00% - 5.00%
Barium Sulfate	7727-43-7	0.10% - 1.00%

Section 2 - First aid measures

4.1. Description of first aid measures

First-aid measures general: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries:
Symptoms/injuries after inhalation:
Symptoms/injuries after skin contact:
Symptoms/injuries after eye contact:
Symptoms/injuries after ingestion:
Chronic symptoms:

Section 5 - Firefighting measures

Flash Point: 38 C (101 F)

LEL: 1.00 UEL: 11.00

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, Carbon Dioxide, Foam

5.2. Special hazards arising from the substance or mixture

Fire hazard:
Explosion hazard:
Reactivity:

5.3. Advice for firefighters

Firefighting instructions:
Protection during firefighting:

Section 6 - Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures:Evacuate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). Ventilate area. Keep upwind.

6.1.1. For non-emergency personnel

Protective equipment: Wear Protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment:
Methods for cleaning up:

Section 7 - Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

7.2. Conditions for safe storage, including any incompatiblities
Storage Conditions:
Storage Temperature:

Section 8 - Exposure controls/personal protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ground Limestone 1317-65-3	PEL 5mg/m2 - TWA (respirable fraction) PEL 15mg/m3 - TWA (total dust)	OELs not established	Not Established
Trade Secret N/A	Not Established	Not Established	Not Established
Stoddard Solvent 8052-41-3	VPEL 100ppm - TWA PEL - 500ppm - TWA	TLV 100ppm - TWA	Not Established
Titanium Dioxide 13463-67-7	PEL 15mg/m3 - TWA (total dust)	TLV 10mg/m3 - TWA (total dust)	Not Established
1-chloro-4-(trifluoromethyl)-benzene 98-56-6	OELs not established	OELs not established	CEL 25ppm - TWA
Aliphatice Petroleum Distillate 64742-89-8	OELs not established	OELs not established	Not Established
Zinc Oxide 1314-13-2	PEL 15 mg/m3 - TWA (total dust) PEL 5 mg/m3 - TWA (respirable fraction) vPEL 10 mg/m3 - STEL (fume)	TLV 2 mg/m3 - TWA (respirable fraction) TLV 10 mg/m3 - STEL (respirable fraction)	Not Established
Calcium Magnesium Silicate Hydrate 14807-96-6	PEL - 20 mppcf - TWA (if 1% Quartz or more, use Quartz limit) VPEL- 2 mg/m3 - TWA (respirable dust)	TLV 2 mg/m3 - TWA (respirable fraction)	Not Established
Barium Sulfate 7727-43-7	PEL 15 mg/m3 TWA (total dust) PEL 5 mg/m3 TWA (respirable fraction)	TLV - 10 mg/m3 TWA	Not Established

8.2. Exposure controls
Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.
Hand Protection: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296.Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.
Eye Protection: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.
Skin and body protection: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure
Respiratory Protection: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment..

Section 9 - Physical and chemical properties

Appearance	Viscous liquid either colored or clear depending on product	**Odor**	NA
Physical State	Liquid	**Boiling Range**	95 to 160 °C
% Volume Volatile	44.50	**Specific Gravity (SG)**	1.420
Formula Lb / Gal	11.85	**Lbs VOC/Gallon Less Water**	2.06
gms VOC/Liter Less Water	247		

Section 10 - Stability and reactivity

10.1 Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

STABLE

Caustics, and strong oxidizers
Strong oxidizing agents
Acids, strong oxidizing agents.
Non-reactive material.

Oxides of carbon, such as carbon dioxide & carbon monoxide.
May produce Chlorine and/or Fluorine containing gases.
Material will ash when exposed to extremely high temperatures and flame.
Hazardous polymerization will not occur.

Section 11 - Toxicological information

Mixture Toxicity

Component Toxicity

98-56-6	1-chloro-4-(trifluoromethyl)-benzene Dermal LD50: 2,700 mg/kg (Rabbit)
64742-89-8	Aliphatice Petroleum Distillate Oral LD50: 5,000 mg/kg (Mouse) Dermal LD50: 3,000 mg/kg (Rabbit)

Acute toxicity:
Skin corrosion/irritation:
Serious eye damage/irritation:
Respiratory or skin sensitisation:
Germ cell mutagenicity:
Carcinogenicity:
Reproductive toxicity:

Specific target organ toxicity (single exposure):
Specific target organ toxicity (repeated exposure):
Aspiration hazard:
Symptoms/injuries:
Symptoms/injuries after inhalation:
Symptoms/injuries after skin contact:
Symptoms/injuries after eye contact:
Symptoms/injuries after ingestion:
Chronic symptoms:

Inhalation **Skin Contact** **Eye Contact** **Ingestion**

Eyes **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. Not a primary eye irritant, mechanical irritation only.
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. Not a primary skin irritant, not absorbed through skin.
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. Unlikely to be toxic by ingestion.
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. Symtoms usually occur at air concentrations higher than the recommended exposure limits. Inhalation of high concentrations may cause mechanical irritation and discomfort. Repeated overexposure can cause chronic effects. These effects are only from talc dust itself as an airborne particle.
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. Prolonged exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pheumoconiosis) or of the covering of the lungs (pleural thickening). Pneumoconiosis may produce symptoms of cough or shortness of breath. Pleural thickening usually produces no symptoms. Conditions can be determined by chest radiographic examination and pulmonary function test (FEV & FVC). Bronchial irritation may cause sputum production.
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. Talc may contain trace amounts of quartz (crystalline silica). Overexposure to respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. "Inhalable" crystalline silica is listed by IARC as a Group I carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a substance reasonably anticipated to be a carcinogen. Some human studies have not demonstrated a cancer association and considerable controversy exists. This talc has been tested as a whole and in parts in several animal studies with no carcinogenic association demonstrated. Epidemiologic studies in humans have been interpreted in conflicting ways with no clear evidence of an increased risk in lung tumors in association with exposure. Human, animal and in-vitro tests of basic product ingredients do not show a carcinogenic effect. All talc is of the non-asbestos form. Note: These effects and tests have only been as a result of the raw respirable dust, and not when incorporated as a component of another material.

CAS Number	Description	% Weight	Carcinogen Rating

Section 12 - Ecological information

No data available

Component Ecotoxicity

Section 13 - Disposal considerations

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.
Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Section 14 - Transport information

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Paint: Flammable Liquid	1263	II	3

Section 15 - Regulatory information

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:

13463-67-7 Titanium Dioxide 1 to 5 %

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

Barium Sulfate 0.1 to 1.0 %
Calcium Magnesium Silicate Hydrate 1 to 5 %
Zinc Oxide 1 to 5 %
Titanium Dioxide 1 to 5 %

Stoddard Solvent 10 to 20 %
Ground Limestone 30 to 40 %

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.

Barium Sulfate 0.1 to 1.0 %
Calcium Magnesium Silicate Hydrate 1 to 5 %
Zinc Oxide 1 to 5 %
Titanium Dioxide 1 to 5 %
Stoddard Solvent 10 to 20 %
Ground Limestone 30 to 40 %

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

7727-43-7
14807-96-6
1314-13-2
13463-67-7
8052-41-3
1317-65-3

Country	Regulation	All Components Listed

EU Risk Phrases

Safety Phrase

All components of this product are listed on the TSCA Inventory or are exempt.

- None

Section 16 - Other information

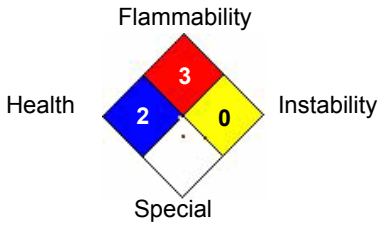
Author: BCS

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)



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Reviewer Revision

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