

Safety Data Sheet

MILSPRAY MIL-DTL-53030 Type II – Component A, Epoxy Primer
Revision Date: June 1, 2015

Contains Spectrum Water Borne Epoxy Primer Part A

Section 1 – Manufacturer Identification

Product Name: MIL-DTL-53030 Type II
Component A, Epoxy Primer

Recommend Use: Touch-Up Military Paint

Not Recommended For: Commodity General Public Use

Supplier's Name: MILSPRAY Military
Technologies

Address: 845 Towbin Ave
Lakewood, NJ 08701

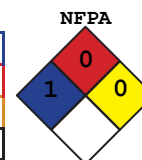
Phone: 732-886-2223

EMERGENCY PHONE: 1-800-424-9300 (Chemtrec)

MILSPRAY

Military Technologies

HMIS	
Health	1
Flammability	0
Physical Hazard	0
Personal Protection	



Section 2 – Hazards Identification

GHS Ratings:

Skin Corrosion 3
Skin Sensitizer 1

GHS Signal Word: Warning

GHS Hazards:

Causes mild skin irritation
May cause an allergic skin reaction

GHS Precautions

Avoid breathing dust/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves, clothing and eye protection
Wash contaminated clothing before reuse
IF ON SKIN: Wash with soap and water
If skin irritation or a rash occurs: Get medical attention
Dispose of contents/container in accordance with all applicable regulations



Section 3 – Composition/Information on Ingredients

Chemical	CAS No.	Weight Percent
Water	7732-18-5	20-30%
Bisphenol-A, Epichlorohydrin	25036-25-3	20-30%
Proprietary Orthophosphate Silicate Hydrate Anti-Corrosive Pigment		5-10%
Calcium Silicate	10101-39-0	5-10%
Ceramic Microspheres	66402-68-4	5-10%

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Titanium Dioxide	13463-67-7	5-10%
Calcium Magnesium Silicate Hydrate	14807-96-6	5-10%
Barium Sulfate	7727-43-7	1-5%
1-Methoxy-2-Propanol	107-98-2	1-5%
Phenylmethyl Alcohol	100-51-6	1-5%
Non-Hazardous Resin Solids Resin		1-5%

Section 4 – First Aid Measures

EYE CONTACT: 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.

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

INHALATION: 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.

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

Section 5 – Fire Fighting Measures

FLASH POINT: 100C (212F)

LEL: 2.00

UEL: 11.00

SUITABLE EXTINGUISHING MEDIA: Carbon dioxide, Carbon Dioxide, Foam

SPECIAL FIRE FIGHTING PROCEDURES: Not available.

UNSUITABLE EXTINGUISHING MEDIA: Not available.

UNUSUAL FIRE & EXPLOSION HAZARDS: Not available.

PRODUCTS OF COMBUSTION: Not available.

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

NON-EMERGENCY PERSONNEL: Protective equipment: Wear Protective equipment as described in Section 8. Emergency procedures: Evacuate unnecessary personnel.

NFPA 704: Health = 1 Flammability = 0 Instability = 0

Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS: 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.

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

METHODS OF CONTAINMENT: Not available.

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METHODS OF CLEAN-UP: Not available.

OTHER INFORMATION: Not available.

Section 7 - Handling and Storage

HANDLING: Not available.

STORAGE: Not available.

Section 8 - Exposure Controls/Personal Protection

Chemical	OSHA Exposure Limits	ACGIH Exposure	Other Exposure
Water	OELs not established	OELs not	
Bisphenol-A, Epichlorohydrin	OELs not established	OELs not established	
Proprietary Orthophosphate Silicate Hydrate Anti-Corrosive	PEL 10mg/m3 - TWA (total dust) PEL 5mg/m3 - TWA (respirable dust)		
Calcium Silicate	PEL- 15mg/m3 total dust 5 mg/m3 respirable fraction	TWA - 10mg/m3 total dust 3 mg/m3 respirable fraction	
Ceramic Microspheres	OELs not established	OELs not established	
Titanium Dioxide	PEL 15mg/m3 - TWA (total dust)	TLV 10mg/m3 - TWA (total dust)	
Calcium Magnesium Silicate Hydrate	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)	
Barium Sulfate	PEL 15 mg/m3 TWA (total dust) PEL 5 mg/m3 TWA (respirable fraction)	TLV - 10 mg/m3 TWA	

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1-Methoxy-2-Propanol	VPEL 100ppm - TWA VPEL 150ppm - STEL	TLV 50ppm - TWA TLV 100ppm - STEL	
Phenylmethyl Alcohol	None assigned.	None assigned.	PEL 25ppm-TWA
Non-Hazardous Resin Solids Resin			

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.

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 PROTECTION: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

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.

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..

HYGIENE: Not available.

Section 9 – Physical and Chemical Properties

APPEARANCE: Viscous liquid either colored or clear depending on product.

PHYSICAL STATE: Liquid

% Volume Volatile: 48.71

Formula Lb/Gal: 11.95

Gms VOC/Liter Less Water: 72

ODOR: Not available.

Boiling Range: 100 to 207C

Lbs VOC/Gallon Less Water: 0.60

EVAPORATION RATE: Slower than ether.

pH: Not available.

MELTING POINT/FREEZING POINT: Not available.

FLASH POINT: 100°C (212°F)

FLAMMABILITY: Not available.

UPPER/LOWER LIMITS FLAMMABILITY: 11.00/2.00

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VAPOR PRESSURE: Not available.

RELATIVE DENSITY: 1.432

SOLUBILITY: Not available.

PARTITION COEFFICIENT: Not available.

AUTO-IGNITION TEMPERATURE: Not available.

DECOMPOSITION TEMPERATURE: Not available.

VISCOSITY: Not available.

VAPOR DENSITY: Heavier than air.

Section 10 – Stability and Reactivity

STABILITY: Is stable.

CONDITIONS TO AVOID: Strong oxidizing agents, acids, and alkali/base/caustic solutions, and heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents. Mineral acids and strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, such as carbon dioxide & carbon monoxide. Material will ash when exposed to extremely high temperatures and flame. May form: aldehydes, carbon dioxide and carbon monoxide, ketones, organic acids.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

Section 11 – Toxicological Information

APPEARANCE/ODOR: Viscous liquid / Not available.

LIKELY ROUTES OF EXPOSURE: Eye contact, Skin contact, Ingestion, and Inhalation

EYE: No data found. Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Not a primary eye irritant, mechanical irritation only.

INHALATION: Inhalation of mica may cause possible difficulty in breathing and a persistent cough. 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. 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.

SKIN: No data found. 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: No data found. 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.

MEDICAL CONDITIONS AGGRAVATED BY 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.

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Prolonged exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) 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 ORGANS: Eyes, Kidneys, Liver, Lungs, Central Nervous System, and Skin. 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. No Data

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.

DEVELOPMENTAL INFORMATION: Not available.

CARCINOGENICITY: Not available.

MIXTURE TOXICITY: Inhalation Toxicity LC50: 330mg/L

COMPONENT TOXICITY:

Chemical	LD50	LC50
1-Methoxy-2-Propanol	Dermal: 13 g/kg (Rabbit)	
Phenylmethyl Alcohol	Oral: 1,230 mg/kg (rat) Dermal: 2 g/kg	Inhalation: 9 mg/L (rat)

Section 12 - Ecological Information

ENVIRONMENTAL EFFECTS: Not available.

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.

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Section 14 – Transport Information

DOMESTIC (USDOT):

Proper Shipping Name: Paint: Non-Hazardous Water Base Paint
Hazard Class: Not applicable.
Packing Group: Not applicable.

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 5 to 10 %

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

Phenylmethyl Alcohol 1 to 5 %

1-Methoxy-2-Propanol 1 to 5 %

Barium Sulfate 1 to 5 %

Calcium Magnesium Silicate Hydrate 5 to 10 %

Titanium Dioxide 5 to 10 %

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:

1-Methoxy-2-Propanol 1 to 5 %

Barium Sulfate 1 to 5 %

Calcium Magnesium Silicate Hydrate 5 to 10 %

Titanium Dioxide 5 to 10 %

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

100-51-6

107-98-2

7727-43-7

14807-96-6

13463-67-7

EU Risk Phrases:

R43: May cause sensitization by skin contact

R36/38: Irritating to eyes and skin

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrase:

S23: Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer)

S24: Avoid contact with skin

S37: Wear suitable gloves

S51: Use only in well-ventilated areas

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

- None

Section 16 – Other Information

HMIS: Health = 1 Flammability = 0 Physical Hazard = 0 Personal Protection = N/A

NFPA 704: Health = 1 Flammability = 0 Instability = 0

HMIS

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	



DISCLAIMER:

This SDS is based on information believed to be reliable and accurate. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State and Local laws and regulations.

Revision History

6/01/2015 - Original SDS version; approval JH