

Safety Data Sheet

MILSPRAY MIL-DTL-53022E-Type II – Component A, Epoxy Primer
Revision Date: June 1, 2015

Contains NCP Coatings DynaSpec Epoxy Primer MIL-DTL-53022E TII Comp A

Section 1 – Manufacturer Identification

Product Name: MIL-DTL-53022E Type II -
Component A, Epoxy Primer

Recommend Use: Touch-Up Military Paint

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	2
Flammability	3
Physical Hazard	0
Personal Protection	G

NFPA



Section 2 – Hazards Identification

EMERGENCY OVERVIEW:

Immediate Concerns: Highly flammable liquid and vapor

Physical Appearance: Liquid

GHS Ratings:

Skin Irritant	2
Eye Damage	2
Flammable Liquid	2
Skin Sensitizer	1
STOT SE	1
STOT RE	1



GHS Signal Word: Danger

GHS Hazards:

- Highly flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.

GHS Precautions

- IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN:** Wash with plenty of soap and water.
- IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- If skin irritation or rash occurs: Get medical attention.
- If experiencing respiratory symptoms: Get medical attention.
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

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Ground container and receiving equipment.

Use explosion-proof equipment.

Avoid breathing dust/mist/spray.

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/national/international regulations.

In case of fire: Use appropriate method to extinguish. See Section 5 of SDS.

Store in a well-ventilated place. Keep container cool and tightly closed.

Section 3 – Composition/Information on Ingredients

Chemical	CAS No.	Weight	GHS
Titanium Dioxide	13463-67-7	23.04	Conclusive but not sufficient for classification.
Bisphenol A Diglycidyl Ether	25036-25-3	15-20%	H317 May cause an allergic skin reaction.
*4-Methyl-2-pentanone	108-10-1	11.31	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H332 Harmful if inhaled. May cause respiratory irritation.
Crystalline Silica	14808-60-7	10.16	H350 May cause cancer by inhalation. H372 Causes damage to lungs through prolonged or repeated exposure by inhalation.

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*Mixed Xylenes	1330-20-7	6.01	<p>H226 Flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.</p>
Epoxy Resin	25068-38-6	1-5%	<p>H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.</p>
1-Methoxy-2-Propanol	107-98-2	1-5%	<p>H226 Flammable liquid and vapor. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child.</p>
t-Butyl Acetate	540-88-5	1-5%	<p>H225 Highly flammable liquid and vapor. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H402 Harmful to aquatic life</p>

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Ethyl Benzene	100-41-4	1.03	H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
*Zinc Compound	60580-61-2	0.391	

* Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

"WARNING: THIS PRODUCT MAY CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

Section 4 - First Aid Measures

EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated shoes and clothes and clean before reuse.

INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

INGESTION: DO NOT induce vomiting. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SYMPTOMS: May cause drowsiness or dizziness.

EFFECTS: Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

Section 5 - Fire Fighting Measures

FLASH POINT: 73°F (23°C) SETAFLASH CLOSED CUP

SUITABLE EXTINGUISHING MEDIA: Water mist or fog, dry chemical, foam, carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA: Not available.

UNUSUAL FIRE & EXPLOSION HAZARDS: Flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

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PRODUCTS OF COMBUSTION: During combustion carbon monoxide and/or carbon dioxide may be formed.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike collect water used to fight fire. Small fires: carbon dioxide or dry chemical. Large fire: alcohol-type aqueous film-forming foam or water spray.

NFPA 704: Health = 1 Flammability = 3 Instability = 0

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS: Not available.

ENVIRONMENTAL PRECAUTIONS: Avoid runoff into storm sewers and ditches which lead to waterways.

METHODS OF CONTAINMENT: Dike spill area and absorb the spilled liquid with earth, sawdust or a commercially available absorbent..

METHODS OF CLEAN-UP:

SMALL SPILLS: Eliminate all sources of ignition. Provide good ventilation and minimize the breathing of vapors and avoid skin contact. Dike spill area and absorb the spilled liquid with earth, sawdust or a commercially available absorbent. Shovel spent absorbent into recovery or salvage drums for appropriate disposal.

LARGE SPILLS: Wear appropriate personal protective equipment. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Use only non-combustible material for cleanup. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand, earth or sawdust), then place in a chemical waste collector.

OTHER INFORMATION: EMERGENCY PRECAUTIONS: Eliminate ignition sources. Avoid large exposures to vapors.

Section 7 - Handling and Storage

HANDLING: Use only in a well ventilated area. Avoid breathing vapor, fumes, or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all SDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE: Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use.

Section 8 - Exposure Controls/Personal Protection

Chemical	OSHA Exposure	ACGIH Exposure
Titanium Dioxide	PEL 10 mg/m3 TWA Total Dust	TLV 10 mg/m3 Total Dust
Bisphenol A Diglycidyl Ether	PEL: 15 mg/m3 TWA	TLV: 10 mg/m3 TWA

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*4-Methyl-2-pentanone	PEL 50 PPM TWA	TLV 50 PPM TWA
Crystalline Silica	PEL 10 mg/m3 Total Dust	TLV 0.025 mg/m3 Respirable Dust
*Mixed Xylenes	PEL 100 PPM TWA	TLV 100 PPM TWA
Epoxy Resin	PEL NE	TLV NE
1-Methoxy-2-Propanol	PEL 100 PPM TWA	TLV 100 PPM TWA
t-Butyl Acetate	PEL: 200 PPM TWA	TLV: 200 PPM TWA
Ethyl Benzene	PEL 100 PPM TWA	TLV 100 PPM TWA
*Zinc Compound	PEL NE	TLV NE

NE= Not Established

ENGINEERING CONTROLS: Engineering controls should be in place to minimize exposure to vapors and any ignition sources.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN PROTECTION: Wear impervious gloves to prevent contact with skin. Wear protective gear as needed - apron, suit, boots.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

HYGIENE: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

OTHER USE PRECAUTIONS : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9 - Physical and Chemical Properties

PHYSICAL STATE: Liquid

ODOR: Typical

ODOR THRESHOLD: Not determined.

pH: Not determined.

BOILING POINT: 205.0 F

FLASH POINT: 73°F(23°C) SETAFLASH CLOSED CUP

FLAMMABILITY LIMITS: 0.8 to 12.0

VAPOR PRESSURE: Not determined.

VAPOR DENSITY: Heavier than air.

SPECIFIC GRAVITY: 1.5375708

AUTO-IGNITION TEMPERATURE: Not determined.

VOC EPA METHOD 24: 3.0538405 lb/gal

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Section 10 - Stability and Reactivity

STABILITY: No information available.

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, flame and source of ignition.

INCOMPATIBLE MATERIALS: Prevent contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: During combustion carbon monoxide and/or carbon dioxide may be formed.

POSSIBILITY OF HAZARDOUS REACTIONS: No information available.

Section 11 - Toxicological Information

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

EYE: Causes severe eye irritation.

SKIN: Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INHALATION: Vapors are irritating to nasal passages and throat. High concentrations can cause stupor and headaches. May cause dizziness and drowsiness.

Ingestion: Irritating to mouth, throat, and stomach. May cause headache. May cause dizziness and drowsiness and/or stupor.

CHRONIC EFFECTS: Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

TARGET ORGANS: Not available.

CANCER INFORMATION: Not available.

CARCINOGENICITY: Not available.

DEVELOPMENTAL INFORMATION: Not available.

MIXTURE TOXICITY: Not available.

ACUTE TOXICITY VALUES: The acute effects of this product have not been tested. Data on individual components are listed below.

CAS Number	Test
13463-67-7	Vapor LC50: >6.82lg/L Rat, Dermal LD50: >10,000 mg/kg Rabbit, Oral LD50: >5,000 mg/kg Rat,
25036-25-3	Oral: Rat LD50: > 2.000 mg/kg, Dermal: Rat LD50: > 2,000mg/kg,
108-10-1	Oral LD50:>2,080 mg/kg, Dermal LD50:>2,000 mg/kg, Vapor LC50: 16.4 mg/L,
14808-60-7	Oral LD50:>22,500 mg/kg.
1330-20-7	Oral LD50: >3523 mg/kg, Dermal LD50: >4200 mg/kg, Vapor LC50: >20 mg/L,

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25068-38-6	Oral LD50: Rat: 11,400 mg/kg, Dermal LD50: Rat: 2,000 mg/kg,
107-98-2	Oral LD50:>4016 mg/kg, Dermal LD50:>2000 mg/kg, Vapor LC50:>27.596 mg/L,
540-88-5	Oral LD50: 4,500 mg/kg, Inhalation LC50: 12.52 mg/l, Dermal LD50:>2,000 mg/kg,
100-41-4	Oral LD50: 3500 mg/kg, Dermal LD50: 15433 mg/kg, Vapor LC50: >20 mg/L,
60580-61-2	

Section 12 - Ecological Information

ENVIRONMENTAL EFFECTS: Information not available on mixture. Information on individual components is listed below if available.

CAS Number	Test
13463-67-7	96h LC50: >1,000 mg/L (fathead minnow), 72h EC50: 61 mg/L (green algae), 48h EC50: >1,000 gm/L (water flea),
25036-25-3	No information available.
108-10-1	No information available
14808-60-7	Silica LC50:>10,000 mg/l Carp
1330-20-7	No information available.
25068-38-6	Acute LC50: 1.3 mg/l 203 Fish 96 h, Actue EC50 2.1 mg/l Daphnia4 48h , Acute NOEC 0.3 mg/l Daphnia 21 d, Acute LC50>11 mg/l Algae 72 h,
107-98-2	No Information available.
540-88-5	Harmful to aquatic life., High concentrations may be harmful to sewage treatment plant microbes, Inherently biodegradable.,
100-41-4	No information available
60580-61-2	

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Section 13 - Disposal Considerations

Dispose of waste in accordance with all local, state, and federal regulations.

Section 14 - Transport Information

DOMESTIC (USDOT):

Proper Shipping Name: Paint
Hazard Class: 3
Packing Group: III
Quantity: Not applicable.
UN Number: 1263

Section 15 - Regulatory Information

REGULATORY OVERVIEW: The regulatory data in section 15 is not intended to be all-inclusive, only selected regulations are represented.

TSCA: All components of this material are either listed or exempt from listing on the TSCA Inventory.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312/313 REPORTABLE INGREDIENTS: See Section 3.

EPA HAZARDS:

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No

ACUTE: Yes **CHRONIC:** Yes

DSL: All components of this material are on or exempt from listing on the Canadian Domestic Substances List(DSL).

Section 16 - Other Information

HMIS: Health = 2 Flammability = 2 Reactivity = 0 Personal Protection = G

NFPA 704: Health = 1 Flammability = 3 Instability = 0

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