

Safety Data Sheet

MILSPRAY Single Component Zinc Rich Primer

Meets MIL-Spec-A-A-59745

Revision Date: June 8, 2015

Contains NCP Zinc Rich Coating

Section 1 - Manufacturer Identification

Product Name: Single Component Zinc Rich 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

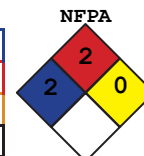
Phone: 732-886-2223

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

MILSPRAY

Military Technologies

HMIS	
Health	3
Flammability	2
Physical Hazard	1
Personal Protection	K



Section 2 - Hazards Identification

Emergency Overview:

Physical appearance: Liquid

Immediate concerns: Flammable liquid and vapor

GHS Ratings:

Flammable Liquid	3
Resp. Sensitizer	1
Acute Toxicity	4
Skin Sens.	1
STOT SE	3



GHS Signal Word: Danger

GHS Hazards:

Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

GHS Precautions

IF SWALLOWED: Immediately call a POISON CENTER or doctor.
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 advice / attention.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground container and receiving equipment.
Use explosion-proof electrical equipment.
Avoid breathing dust/mist/spray.
Do not get in eyes, on skin, or on clothing.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.

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Wear protective gloves/protective 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 all applicable 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

Product Name	CAS #	% by weight
*Zinc Dust	7440-66-6	70.71%
Polyisocyanate based on MDI	Trade Secret	5-10%
Parachlorobenzotrifluoride	98-56-6	5-10%
Light Aromatic Petroleum distillates	64742-95-6	5-10%
*1,2,4 Trimethylbenzene	95-63-6	3.28%
Zinc Oxide	1314-13-2	1-5%
*4,4'-Diphenylmethane Diisocyanate	101-68-8	1.13%

* 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: 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.

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

NOTE TO PHYSICIAN: Not available.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS : May cause respiratory irritation, dizziness, or drowsiness.

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. Overexposure and long term exposure to isocyanate can cause lung and skin sensitization.

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Foam, Powders, Carbon Dioxide, or Dry Chemical.

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

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ignition. Also, do not reuse container without commercial cleaning or reconditioning. Product reacts with water releasing large amounts of carbon dioxide which may cause pressure build up in confined spaces. Toxic vapors and corrosive fumes can be emitted during fire conditions.

SPECIAL 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, product will react with water and release large amounts of carbon dioxide which may cause pressure build up in confined spaces. Water spray to cool containers or protect personnel, but avoid direct contact between water and the product. Small fires: carbon dioxide or dry chemical. Large fire: alcohol-type aqueous film-forming foam or dry chemical.

UNSUITABLE EXTINGUISHING MEDIA: Not available.

PRODUCTS OF COMBUSTION: During combustion toxic vapors may be released. Under fire conditions, corrosive fumes and toxic vapors may be emitted.

PROTECTION OF FIREFIGHTERS: Not available.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS: Not available.

ENVIRONMENTAL PRECAUTIONS: Stop spill at source, and prevent material from entering drains, sewers, streams or other bodies of water.

METHODS OF CONTAINMENT: Dike spill area with suitable absorbant material or chemical booms to limit spreading.

SPILL AND LEAK PROCEDURES:

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: 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. Avoid contact with water or humidity. 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

Product Name

CAS #

Limits

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*Zinc Dust	7440-66-6	ACGIH TLV 5 mg/m3 TWA OSHA PEL 5 mg/m3 TWA
Polyisocyanate based on MDI	Trade Secret	OSHA PEL NE ACGIH TLV NE
Parachlorobenzotrifluoride	98-56-6	ACGIH TLV NE OSHA PEL NE
Light Aromatic Petroleum distillates	64742-95-6	OSHA PEL 100 PPM TWA ACGIH TLV 100 PPM TWA
*1,2,4 Trimethylbenzene	95-63-6	ACGIH TLV 25 PPM TWA OSHA PEL 25 PPM TWA
Zinc Oxide	1314-13-2	ACGIH TLV 10 mg/m3 TWA OSHA PEL 15 mg/m3 TWA
*4,4'-Diphenylmethane Diisocyanate	101-68-8	OSHA PEL 2 PPM ACGIH TLV 0.005 PPM

OSHA TABLE COMMENTS:

NE = Not Established

ENGINEERING CONTROLS : Engineering controls should be in place to minimize exposure to vapors and any ignition sources.**PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE** : Wear safety glasses with side shields (or goggles) and a face shield.**SKIN** : Wear impervious gloves to prevent contact with skin. Wear protective gear as needed - apron, suit, boots.**RESPIRATORY** : NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits. In the event of insufficient ventilation, Self-contained breathing apparatus is recommended.**WORK HYGIENIC PRACTICES** : 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

APPEARANCE: Liquid**ODOR:** Typical**ODOR THRESHOLD:** Not determined.**VAPOR DENSITY:** Not determined.**EVAPORATION RATE:** Not determined.**PHYSICAL STATE:** Liquid**% Volume Volatile:** Not determined.**Formula Lb/Gal:** Not determined.**Boiling Point:** 282.0°F

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Lbs VOC/Gallon Less Water: 2.7868350 lb/gal

Gms VOC/Liter Less Water: Not available.

pH: Not available.

MELTING POINT/FREEZING POINT: Not available.

FLASH POINT: 113°F (45°C) SETAFLASH CLOSED CUP

FLAMMABILITY: Not available.

FLAMMABILITY LIMITS: .9 TO 12.6

VAPOR PRESSURE: Not available.

RELATIVE DENSITY: 2.8111313

SOLUBILITY: Not available.

PARTITION COEFFICIENT: Not available.

AUTO-IGNITION TEMPERATURE: Not available.

DECOMPOSITION TEMPERATURE: Not available.

VISCOSITY: Not available.

VAPOR DENSITY: Not available.

Section 10 - Stability and Reactivity

STABILITY: No information available.

CONDITIONS TO AVOID: Not available.

INCOMPATIBLE MATERIALS: Prevent contact with water and aqueous solutions, alcohols, amines, bases, strong acids, and strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: During thermal decomposition, toxic gasses, corrosive gasses, and nitrogen oxides 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

ACUTE EFFECTS:

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.

ACUTE TOXICITY VALUES : The acute effects of this product have not been tested.

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Data on individual components are listed below.

CAS Number	TEST
7440-66-6	
Trade Secret	Oral LD50:>2000 mg/kg Rat, Inhalation LC50: 490 mg/l, 4h Rat, Dermal Toxicity LD50:>9400 mg/kg Rabbit
98-56-6	Oral LD50: 13,000, Dermal LD50: 2,700, Vapor LC50: 33
64742-95-6	Oral LD50: >3,000 mg/kg, Dermal LD50: >3,160 mg/kg, Vapor LC50: >20 mg/L
95-63-6	ORAL LD50:5000 mg/kg, Dermal LD50:>5000 mg/kg, Vapor LC50:18 mg/L
1314-13-2	
101-68-8	

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not available.

TARGET ORGANS: Not available.

CANCER INFORMATION: Not available.

DEVELOPMENTAL INFORMATION: Not available.

CHRONIC EFFECTS: Not available.

CARCINOGENICITY: Not available.

MIXTURE TOXICITY: Not available.

Section 12 - Ecological Information

ECOTOXICOLOGICAL INFORMATION: Information not available on mixture.

Information on individual components is listed below if available.

CAS Number	TEST
7440-66-6	
Trade Secret	Acute and Prolonged Toxicity to Fish LC50:>100 mg/l, Acute Toxicity to Aquatic Invertebrates EC50: 83 mg/l Daphnia magna,
98-56-6	No Information available.
64742-95-6	No information available.
95-63-6	No information available.
1314-13-2	
101-68-8	

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

DOMESTIC (USDOT) :

Proper Shipping Name: Paint

UN Number: UN1263

Hazard Class: 3

Packing Group: III

Section 15 - Regulatory Information

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

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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

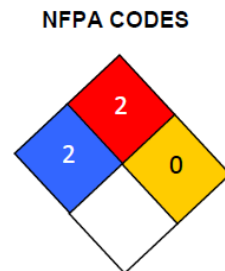
DSL: All components of this material are on or exempt from listing on the Canadian Domestic Substances List(DSL).

Section 16 - Other Information

HMIS: Health = 3 Flammability = 2 Physical Hazard = 1 Personal Protection = K

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

HMIS RATING	
Health :	3
Flammability :	2
Reactivity :	1
Personal Protection :	K



HMIS and NFPA rating scale: (0=minimal hazard; 4=severe hazard)

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
6/08/2015 - Original SDS version; approval JH