

Safety Data Sheet

MILSPRAY MIL-DTL-53039E Type IV - 30051 Brown – Single Component
Revision Date: June 2, 2015

Contains NCP Dynaspec MC 383 Brown #30051 MIL-DTL-53039E Type IV

Section 1 - Manufacturer Identification

Product Name: MIL-DTL-53039E Type IV - 30051
Brown - Single Component

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)



| HMIS | |
|---------------------|---|
| Health | 2 |
| Flammability | 3 |
| Physical Hazard | 1 |
| Personal Protection | G |



Section 2 - Hazards Identification

Emergency Overview:

Physical appearance: Liquid

Immediate concerns: Flammable liquid and vapor

GHS Ratings:

| | |
|------------------|---|
| Flammable Liquid | 3 |
| Resp. Sens. | 1 |
| Acute Tox. | 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 / 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 advice / attention.

If experiencing respiratory symptoms: Get medical advice / attention.

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Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/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/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 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 tightly closed.

Store in a well-ventilated place. Keep cool.

Section 3 - Composition/Information on Ingredients

| Chemical | CAS No. | Weight Percent | GHS |
|--|------------|----------------|--|
| Parachlorbenzotrifluoride | 98-56-6 | 35-40% | H319 Causes serious eye irritation. H226 Flammable liquid and vapor. H335 May cause respiratory irritation. H315 Causes skin irritation. |
| *Chromium Oxide Green | 1308-38-9 | 12.25% | |
| Hexamethylene Diisocyanate Homopolymer | 28182-81-2 | 10-15% | H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. |
| Methyl Isoamyl Ketone | 110-12-3 | 1-5% | H226 Flammable liquid and vapor. H332 Harmful if inhaled. |
| Ferric Oxide | 1332-37-2 | 1-5% | |

* 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."

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

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. 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.

NFPA 704: 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

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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

| Components | CAS | Limits |
|--|------------|---|
| Parachlorbenzotrifluoride | 98-56-6 | ACGIH TLV NE OSHA PEL NE |
| *Chromium Oxide Green | 1308-38-9 | ACGIH PEL 0.5 mg/m3 TWA as Chromium(III) OSHA PEL 0.5 mg/m3 TWA as Chromium(III) |
| Hexamethylene Diisocyanate Homopolymer | 28182-81-2 | OSHA PEL: NE ACGIH TLV: NE |
| Methyl Isoamyl Ketone | 110-12-3 | ACGIH TLV: 50 PPM OSHA PEL: 50 PPM |
| Ferric Oxide | 1332-37-2 | ACGIH TLV 5 mg/m3 TWA OSHA PEL 10 mg/m3 TWA |

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

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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: 144.0 °C

Lbs VOC/Gallon Less Water: 0.9948940 lb/gal

Gms VOC/Liter Less Water: Not available.

pH: Not available.

MELTING POINT/FREEZING POINT: Not available.

FLASH POINT: 100F(38°C) SETAFLASH CLOSED CUP

FLAMMABILITY: Not available.

FLAMMABILITY LIMITS: .9 TO 10.5

VAPOR PRESSURE: Not available.

RELATIVE DENSITY: 1.3132192

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: 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 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 respiratory irritation and difficulty breathing. May cause dizziness

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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. Data on individual components are listed below.

| CAS Number | TEST |
|------------|---|
| 98-56-6 | Oral LD50: 13,000, Dermal LD50: 2,700, Vapor LC50: 33, |
| 1308-38-9 | |
| 28182-81-2 | Oral LD0: Rat: >2500 mg/kg), Dermal LD0: Rabbit >2000 mg/kg >2000 mg/kg Rat, Inhalative LC50: .390 mg/l rat 4 h, |
| 110-12-3 | Oral LD-50:(Rat):5.657 mg/kg, Dermal LD-50 (Guinea Pig):>10 ml/kg, NOEL (Rat, Oral Study, 90 d): 200 ppm, |
| 1332-37-2 | |

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

| CAS Number | TEST |
|------------|---|
| 98-56-6 | No Information available. |
| 1308-38-9 | |
| 28182-81-2 | The product does not have any known adverse effects on the aquatic organisms tested. |
| 110-12-3 | LC-50 (Fish, 96h): 159 mg/l, EC-50 (Alga, 72 h):>100 mg/l (highest concentration tested), 67% (28 d, Ready Biodegradability: Closed Bottle Test) Readily biodegradable, |

Section 13 - Disposal Considerations

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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.

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

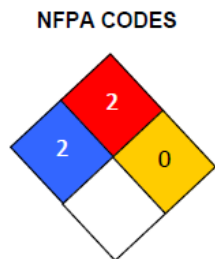
DSL: All components of this material are on or exempt from listing on the Canadian Domestic Substances List(DSL).

Section 16 - Other Information

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

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

| HMIS RATING | |
|-----------------------|---|
| Health : | 2 |
| Flammability : | 3 |
| Reactivity : | 1 |
| Personal Protection : | G |



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

6/02/2015 – Original SDS version; approval JH