

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B  
Revision Date: June 2, 2015

Contains PPG Industries Inc. PSX 700 CURE

## Section 1 - Manufacturer Identification

**Product Name:** MIL-PRF-24635DE Type V – Component B

# MILSPRAY

Military Technologies

**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)

| HMIS                |   | NFPA |   |
|---------------------|---|------|---|
| Health              | 3 | 1    | 1 |
| Flammability        | 1 | 3    | 1 |
| Physical Hazard     | 1 |      |   |
| Personal Protection |   |      |   |

## Section 2 - Hazards Identification

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Ratings:

ACUTE TOXICITY (oral) - Category 4

SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

TOXIC TO REPRODUCTION (Fertility) - Category 1B

TOXIC TO REPRODUCTION (Unborn child) - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1



**GHS Signal Word:** Danger

### GHS Hazards:

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Suspected of causing genetic defects.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

### GHS Precautions:

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves, eye or face protection, and protective clothing. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

**Response:** Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements:** Do not taste or swallow. 1-component mixtures: formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Wash thoroughly after handling. Emits toxic fumes when heated.

**Hazards not otherwise classified:** Causes digestive tract burns.

## Section 3 - Composition/Information on Ingredients

| Chemical                                | CAS No.     | Weight Percent |
|---|-------------|----------------|
| Proprietary silane                      | Proprietary | 60-100%        |
| dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4  | 3-7%           |

## Section 4 - First Aid Measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

**EYE CONTACT:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**INHALATION:** Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**INGESTION:** If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

**NOTE TO PHYSICIAN:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### ACUTE HEALTH EFFECTS:

**EYE CONTACT:** Causes serious eye damage.

**INHALATION:** No known significant effects or critical hazards.

**SKIN CONTACT:** Causes severe burns. May cause an allergic skin reaction.

**INGESTION:** Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

### OVER-EXPOSURE SIGNS/SYMPTOMS:

**EYE CONTACT:** Adverse symptoms may include the following:

Pain, watering, redness

**INHALATION:** Adverse symptoms may include the following:

reduced fetal weight, increase in fetal deaths, skeletal malformations

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

**SKIN CONTACT:** Adverse symptoms may include the following:

pain or irritation, redness, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations

**INGESTION:** Adverse symptoms may include the following:

stomach pains, reduced fetal weight, increase in fetal deaths  
skeletal malformations

**SPECIFIC TREATMENTS:** No specific treatment.

**PROTECTION OF FIRST-AIDERS:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 5 - Fire Fighting Measures

**FLASH POINT:** Closed cup: 96.11°C (205°F)

**LEL:** -

**UEL:**0%

**SUITABLE EXTINGUISHING MEDIA:** Use an extinguishing agent suitable for the surrounding fire.

**UNSUITABLE EXTINGUISHING MEDIA:** None known.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides

**PRODUCTS OF COMBUSTION:** Not available.

**PROTECTION OF FIREFIGHTERS:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6 - Accidental Release Measures

**PERSONAL PRECAUTIONS:** Not available.

**ENVIRONMENTAL PRECAUTIONS:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**FOR NON-EMERGENCY PERSONNEL:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**FOR EMERGENCY RESPONDERS:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**METHODS OF CONTAINMENT AND CLEANING UP:**

**Small Spills:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spills:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7 - Handling and Storage

### HANDLING:

**PROTECTIVE MEASURES:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**SPECIAL PRECAUTIONS:** Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

**GENERAL HYGIENE:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**STORAGE:** Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8 - Exposure Controls/Personal Protection

| Ingredient                              | Exposure Limits  |
|---|--|
| dibutylbis(pentane-2,4-dionato-O,O')tin | <b>ACGIH TLV (United States). Absorbed through skin.</b><br>STEL: 0.2 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> , (as Sn)<br><b>OSHA PEL (United States).</b><br>TWA: 0.1 mg/m <sup>3</sup> , (as Sn)<br>TWA: 0.1 mg/m <sup>3</sup> , (as Sn) Form: Total dust |

**RECOMMENDED MONITORING PROCEDURES:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**ENGINEERING CONTROLS:** If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases,

# Safety Data Sheet

Page: 5/9

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**EYE PROTECTION:** Chemical splash goggles and face shield.

**HAND PROTECTION:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. **GLOVES:** nitrile, neoprene

**SKIN PROTECTION:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **OTHER**

**SKIN PROTECTION:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**RESPIRATORY PROTECTION:** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**HYGIENE:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9 - Physical and Chemical Properties

**PHYSICAL STATE:** Liquid

**COLOR:** Not available.

**ODOR:** Characteristic.

**ODOR THRESHOLD:** Not available.

**pH:** Not available.

**MELTING POINT:** Not available.

**BOILING POINT:** >37.78°C (>100°F)

**FLASH POINT:** Closed cup: 96.11°C (205°F)

**MATERIAL SUPPORTS COMBUSTION:** Yes

**AUTO-IGNITION TEMPERATURE:** Not available.

**DECOMPOSITION TEMPERATURE:** Not available.

**FLAMMABILITY:** Not available.

**LOWER AND UPPER EXPLOSIVE LIMITS:** Lower: -, Upper: 0%

**EVAPORATION RATE:** Not available.

**VAPOR PRESSURE:** Not available.

**VAPOR DENSITY:** Not available.

**RELATIVE DENSITY:**0.95

**DENSITY:**7.93

**SOLUBILITY:** Insoluble in the following materials: cold water.

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

**PARTITION COEFFICIENT:** Not available.**VISCOSITY:** Kinematic (40°C (104°F)): >0.21 cm<sup>2</sup>/s (>21 cSt)**VOLATILITY:** 0% (v/v), 0% (w/w)**%SOLID (w/w):** 100

## Section 10 - Stability and Reactivity

**STABILITY:** The product is stable.**CONDITIONS TO AVOID:** When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.**INCOMPATIBLE MATERIALS:** Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.**POSSIBILITY OF HAZARDOUS REACTIONS:** Under normal conditions of storage and use, hazardous reactions will not occur.**REACTIVITY:** No specific test data related to reactivity available for this product or its ingredients.

## Section 11 - Toxicological Information

| Product                                 | Result      | Species | Dose      | Exposure |
|---|-------------|---------|-----------|----------|
| Proprietary silane                      | LD50 Dermal | Rabbit  | 4 g/kg    | -        |
|   | LD50 Oral   | Rat     | 1.57 g/kg | -        |
| dibutylbis(pentane-2,4-dionato-O,O')tin | LD50 Oral   | Rat     | >2 g/kg   | -        |

**REPRODUCTIVE TOXICITY:** There are no data available on the mixture itself.**TERATOGENICITY:** There are no data available on the mixture itself.**SPECIFIC TARGET ORGAN TOXICITY:****SINGLE EXPOSURE:**

| Name                                    | Category   |
|---|------------|
| Proprietary silane                      | Category 1 |
| dibutylbis(pentane-2,4-dionato-O,O')tin | Category 1 |

**REPEATED EXPOSURE:**

| Name                                     | Category   |
|--|------------|
| dibutylbis(pentane-2, 4-dionato-O,O')tin | Category 1 |

**TARGET ORGANS:** Contains material which may cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS).**ASPIRATION HAZARD:** Not available.**ACUTE HEALTH EFFECTS:****EYE CONTACT:** Causes serious eye damage.

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

**INHALATION:** No known significant effects or critical hazards.

**SKIN CONTACT:** Causes severe burns. May cause an allergic skin reaction.

**INGESTION:** Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

## OVER-EXPOSURE SIGNS/SYMPTOMS:

**EYE CONTACT:** Adverse symptoms may include the following:

Pain, watering, redness

**INHALATION:** Adverse symptoms may include the following:

reduced fetal weight, increase in fetal deaths, skeletal malformations

**SKIN CONTACT:** Adverse symptoms may include the following:

pain or irritation, redness, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations

**INGESTION:** Adverse symptoms may include the following:

stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations

**DELAYED AND IMMEDIATE EFFECTS:** There are no data available on the mixture itself. 1-component mixtures: formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## SHORT TERM EXPOSURE:

**IMMEDIATE EFFECTS:** There are no data available on the mixture itself.

**DELAYED EFFECTS:** There are no data available on the mixture itself.

## LONG TERM EXPOSURE:

**IMMEDIATE EFFECTS:** There are no data available on the mixture itself.

**DELAYED EFFECTS:** There are no data available on the mixture itself.

## CHRONIC HEALTH EFFECTS:

**GENERAL:** Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**CARCINOGENICITY:** No known significant effects or critical hazards.

**MUTAGENICITY:** Suspected of causing genetic defects.

**TERATOGENICITY:** May damage the unborn child.

**DEVELOPMENTAL EFFECTS:** No known significant effects or critical hazards.

**FERTILITY EFFECCTS:** May damage fertility.

## ACUTE TOXICITY ESTIMATES:

| Route  | ATE Value    |
|--------|--------------|
| Oral   | 1365.5 mg/kg |
| Dermal | 4301 mg/kg   |

# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B

Revision Date: June 2, 2015

| Product            | LogPow | BCF | Potential |
|--------------------|--------|-----|-----------|
| Proprietary silane | 1.7    | 3.4 | Low       |

## Section 13 - Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14 - Transport Information

|                             | DOT             | IMDG                                      | IATA            |
|-----------------------------|-----------------|---|-----------------|
| UN number                   | 3066            | 3066                                      | 3066            |
| UN proper shipping name     | PAINT           | PAINT                                     | PAINT           |
| Transport hazard class(es)  | 8               | 8   | 8               |
| Packing group               | III             | III                                       | III             |
| Environmental hazards       | No              | Yes                                       | No              |
| Marine pollutant substances | Not applicable. | (dibutylbis(pentane-2,4-dionato-O,O')tin) | Not applicable. |

## Section 15 - Regulatory Information

## Section 15-Regulatory Information

**United States inventory (TSCA 8b)** : All components are listed or exempted.

**Australia inventory (AICS)**: All components are listed or exempted.

**Canada inventory (DSL)** : All components are listed or exempted.

**China inventory (IECSC)** : All components are listed or exempted.

**Europe inventory (REACH)** : Please contact your supplier for information on the inventory status of this material.

**Japan inventory (ENCS)** : All components are listed or exempted.

**Korea inventory (KECI)** : All components are listed or exempted.

**New Zealand (NZIoC)** : All components are listed or exempted.



# Safety Data Sheet

MILSPRAY MIL-PRF-24635DE Type V – Component B  
Revision Date: June 2, 2015

**Philippines inventory (PICCS):** All components are listed or exempted.

**United States:**

**SARA 304 RQ:** Not applicable.

**SARA 311/312:**

Immediate (acute) health hazard

Delayed (chronic) health hazard

## COMPOSITION ON INGREDIENTS:

| Chemical Name                           | Acute | Chronic | Fire | Reactive | Pressure |
|---|-------|---------|------|----------|----------|
| Proprietary silane                      | Y     | N       | Y    | N        | N        |
| dibutylbis(pentane-2,4-dionato-O,O')tin | Y     | Y       | N    | N        | N        |

## Section 16 -Other Information

**HMIS:** Health = 3 Flammability = 1 Physical Hazard = 1 Personal Protection = N/A

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

### HMIS

|                     |   |
|---------------------|---|
| Health              | 3 |
| Flammability        | 1 |
| Physical Hazard     | 1 |
| 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

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