



## MATERIAL SAFETY DATA SHEET (MSDS)

# Uro-Bond<sup>®</sup> IV Brush-on Silicone Adhesive

Urocare Products, Inc. urges each customer or recipient of this MSDS to study it carefully, become aware of and understand the hazards associated with this product; consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

### SECTION I • MATERIAL & COMPANY INFORMATION

- 1.1 Product Name: Uro-Bond<sup>®</sup> IV Brush-on Silicone Adhesive, Product No. 5004 015 & 5004 03.
- 1.2 Product Use: Adhering prosthetics, theatrical makeup, urinary and ostomy appliances to the body.
- 1.3 Chemical Name & Synonyms: Silicone and HCFC mixture.
- 1.4 Chemical Family: Silicone dispersion.
- 1.5 Synonyms: Not applicable.
- 1.6 Distributor: Urocare Products, Inc. 2735 Melbourne Ave., Pomona, CA 91767-1931, U. S. A.
- 1.7 For Information: +1 (909) 621-6013 Monday ~ Thursday 7:30AM ~ 5:00PM (PST).
- 1.8 Emergency Contact: +1 (800) 457-4280 (InfoTRAC 24-hour number).

### SECTION II • HAZARDOUS INGREDIENTS/MATERIAL COMPOSITION

- 2.1 Product Mixture: Proprietary, but is provided upon agreement for non-disclosure.
- 2.2 Product Components: Silicone solids, Dichloropentafluoropropane and 3,3-Dichloro-1,1,12,2-Pentafluoropropane.
- 2.3 Carcinogenic Listings: (49CFR 1910.1200)
  - 2.4.1 Chemical: Dichloropentafluoropropane, CAS No: 507-55-1, OSHA Hazard: Y Percentage (%): 15-40.
  - 2.4.2 Chemical: 3,3-Dichloro-1,1,12,2-Pentafluoropropane, CAS No: 422-56-0, OSHA Hazard: Y Percentage (%): 10-30.
- 2.4 Shipping Information:
  - 2.4.1 DOT Hazard Class: (49CFR 172.101) not regulated.
  - 2.4.2 DOT Proper Shipping Name: (49CFR 172.101) N/A.
  - 2.4.3 Identification Number: D.O.T. (49CFR 172.101) N/A.
  - 2.4.4 RCRA Hazard Class: (40CFR 261, if discarded) N/A.
  - 2.4.5 CAS No: N/A.
  - 2.4.6 NFPA(R)=National fire Protection Agency—HMIS Format:

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2.4.7 Health Hazard Rating: 0.

2.4.8 Flammability Rating: 1.

2.4.9 Reactivity Rating: 0.

### SECTION III • PHYSICAL & CHEMICAL PROPERTIES

- 3.1 Appearance and Odor: A clear to yellowish liquid.
- 3.2 Odor: Odorless to slight solvent odor.
- 3.3 Boiling Point: 129 to 32° F (54 to 0° C) at 760 mmHg.
- 3.4 Dielectric Strength: N/A.
- 3.5 Evaporation Rate (Butyl Acetate=1): Not Determined.
- 3.6 Freezing/Melting Point: 32° F (0° C)/Not Determined.
- 3.7 Percent Volatile by Weight (%): N/A.
- 3.8 PH: Not Determined.
- 3.9 Pour Point: Not Determined.
- 3.10 Solubility in Water: Insoluble.
- 3.11 Specific Gravity (H<sub>2</sub>O=1 at 77° F (25° C)): 1.55.
- 3.12 Vapor Density (Air=1 at 77° F (25° C)): Not Determined.
- 3.13 Vapor Pressure: 290 to 0 mmHg at 86° F (30° C).
- 3.14 Viscosity, CP: TM-001, Report spindle & Speed: Not Determined.

### SECTION IV • FIRE AND EXPLOSION HAZARD

- 4.1 Flash Point, Method Used: Not Determined.
- 4.2 Auto Ignition: Not Determined.
- 4.3 Flammable Limits in Air (Lel, Uel by volume): Not Determined.
- 4.4 Extinguishing Media: Apply universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires.
- 4.5 Unusual Fire and Explosion Hazards: Product will burn under fire conditions.
- 4.6 Special Fire Fighting Procedures: Cool containers exposed to fire with water. Do not spray a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire.
- 4.7 Special Fire Fighting Equipment: NIOSH/MSHA approved self-contained breathing equipment and protective clothing should be worn in fighting fires involving chemicals. Evacuate area in case of overheating or fire.

### SECTION V • HEALTH HAZARD & EXPOSURE INFORMATION

#### Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

- 5.1 Primary Routes of Contact: Nasal, oral and skin.
- 5.2 Threshold Value and Source(s): No exposure limits were found for this product or any of its ingredients.
- 5.3 Signs and Symptoms of Overexposure: See below, "Effects of Overexposure."

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5.4 Effects of Overexposure:

5.4.1 Effects of Single Overexposure:

- 5.4.1.1 SWALLOWING: May cause irritation of the mouth, throat, esophagus and stomach, with headache, nausea, narcosis and unconsciousness. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. May be harmful if ingested.
- 5.4.1.2 SKIN ABSORPTION: No evidence of adverse effects from available information.
- 5.4.1.3 INHALATION: Vapor may be irritating, experienced as nasal discomfort and discharge, with dizziness, nausea, headache, unconsciousness, cardiac disorders, liver and kidney damage and death.
- 5.4.1.4 SKIN CONTACT: May cause irritation.
- 5.4.1.5 EYE CONTACT: Liquid causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva and corneal clouding.

5.4.2 Effects of Repeated Overexposure:

- 5.4.2.1 This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

5.5 Medical Conditions Aggravated by Exposure: None currently known.

5.6 Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation: None currently known.

5.7 Emergency and First Aid Procedures:

- 5.7.1 SWALLOWING: If individual is fully conscious, give two (2) to three (3) glasses of water to drink at once. Do not induce vomiting. Material may enter lungs and cause severe damage. Do not give anything by mouth to an unconscious individual. Obtain immediate medical attention. Do not leave individual unattended. To prevent aspiration of swallowed product, lay individual on side with head lower than waist. Persons attending individual should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.
- 5.7.2 SKIN: Remove contaminated clothing, wipe excess material off with dry cloth; then wash with plenty of soap and water. Get medical attention if ill or irritation develops. Launder contaminated clothing before reuse.
- 5.7.3 INHALATION: Remove individual immediate source of exposure and assure that individual is breathing. If breathing is difficult, qualified personnel may administer oxygen if available. If unavailable, move to fresh air. Administer artificial respiration (CPR) if not breathing. Seek immediate medical attention.
- 5.7.4 EYES: Immediately absorb excess material with clean cloth or cotton; then while holding eyelids open, flush with plenty of water for 15 minutes. Get medical attention if irritation develops or persists or if visual changes occur.
- 5.7.5 Notes to Physician: Any material aspirated during vomiting may cause severe lung injury; therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration—i.e. gastric lavage after endotracheal intubation.

## SECTION VI • STABILITY AND REACTIVITY

6.1 Stability: Stable.

6.2 Conditions to Avoid: Avoid open flames, hot surfaces and electric arcs and other sources of ignition.

6.3 Incompatibility (Material to Avoid): Strong bases, strong acids, strong oxidizing agents and alkali metals.

6.4 Hazardous Polymerization: Will not occur.

6.5 Hazardous Combustion or Decomposition Products: Burning can produce dimethylcyclsiloxanes and methylphenylcyclsiloxanes. This product can form formaldehyde vapors when heated to temperatures above 302° F (150° C) in the presence of air. Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential carcinogen. Evaluate and control exposure to formaldehyde when

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warranted by conditions of use.

## SECTION VII • HANDLING AND STORAGE

- 7.1 Precautions to be taken in Handling and Storage: Normal precautions common to safe manufacturing practices should be followed in handling and storage. Keep container closed, in a cool, dry place. Keep well ventilated. Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Vent drums while heating.
- 7.2 Drum Container:
- 7.2.1 CONTAINER HAZARDOUS WHEN EMPTY. Emptied container retains vapor and product residue. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal. The reuse of this material's container of non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in the MSDS.
- 7.3 Bulk Container:
- 7.3.1 The hazardous nature of tank inspection, cleaning, repairs, etc. requires trained personnel familiar with the hazards involved. Emptied tank retains vapor and product residue. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.
- 7.4 Materials to Avoid: WARNING! Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "auto ignition" or "ignition" temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes.
- Ignition may occur at typical elevated-temperature process conditions, especially in processes operation under vacuum if subjected to sudden ingress of air or outside process equipment operating under elevated pressure if sudden escape of vapors or mists into the atmosphere occurs.
- Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

## SECTION VIII • LEAK, SPILL, MAINTENANCE/REPAIR AND DISPOSAL PROCEDURES

- 8.1 Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection information in Section IX. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard. Evacuate and isolate spill area.
- 8.2 Small Spills: Wipe-up with absorbent material and contain for disposal.
- 8.3 Large Spills: Confine with dikes using absorbent or impervious materials such as earth, sand or clay; then transfer to suitable containers for disposal.
- 8.4 Waste Cleanup and Disposal Methods:
- 8.4.1 Small Spills: Absorb with an inert, non-combustible absorbent. Scrape-up and place in appropriate closed container—see Section VII • Handling and Storage. Clean-up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.
- 8.4.2 Large Spills: The product is not biodegradable and may be injurious to aquatic life if discharged into open waters. Urocare Products, Inc. suggests that all local, state and federal regulations concerning health and pollution be reviewed to determine approved disposal procedures. Contact Urocare Products if there are any disposal questions.
- 8.5 Protective Equipment:
- 8.5.1 Eyes: Use proper protection—Safety glasses as a minimum.

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- 8.5.2 Skin: Washing with soap and water after use/handling is adequate. Remove contaminated clothing and shoes as soon as practical and clean thoroughly before reuse. Rubber or plastic gloves are recommended.
- 8.6 D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) Spill Reporting Information:
- 8.6.1 Hazardous Substance: N/A
- 8.6.2 Reportable Quantity: Not applicable when dispensed as sold.

## SECTION IX • SPECIAL PROTECTION/EXPOSURE CONTROLS

### Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

This product can form formaldehyde vapors when heated to temperatures above 302° F (150° C) in the presence of air. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

- 9.1 Exposure Limits: No exposure limits were found for this product or any of its ingredients.
- 9.2 Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: For small amounts, adequate general ventilation; otherwise, a mechanical, local exhaust is recommended.
- 9.3 Personal Protection:
- 9.3.1 Ventilation: For small amounts, adequate general ventilation. For large amounts, use respiratory protection unless local exhaust ventilation is adequate or air-sampling data shows exposures are within TLV and PEL Guidelines.
- 9.3.2 Respiratory: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- 9.3.3 Eye/Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material—It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.
- 9.3.4 Skin Protection: Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.
- 9.3.5 Ingestion: Do not ingest.
- 9.3.6 Work Practice Controls:
- 9.3.6.1 Do not store, use and/or consume foods, beverages, tobacco products or cosmetics in areas where this material is stored.
- 9.3.6.2 Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.
- 9.3.6.3 Wash exposed skin promptly to remove accidental splashes or contact with this material.

## SECTION X • SPECIAL PRECAUTIONS

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10.1 Storage & Handling: Harmful if swallowed or inhaled. Causes skin and eye irritation. May cause dizziness, drowsiness or heart damage. Aspiration may cause lung damage. Keep away from open flame or other ignition sources. Store below 120° F (49° C). Use reasonable care and caution.

10.2 Other Precautions: Prevent moist air from entering storage. No smoking around vapors. Contact with aluminum parts in a pressurized fluid system may cause violent reactions.

WARNING: Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as “autoignition” or “ignition” temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes.

Ignition may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs.

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

## SECTION XI • ADDITIONAL REGULATORY COMPLIANCE INFORMATION

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Important: This information must be included in all MSDS that are copied and distributed for this product. Trade Secrets are indicated by "TS".

11.1 C.H.I.P. Regulations: Chemicals (Hazards Information and Packaging) Regulations 1993 requires physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified or consumed within the EEC. Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

11.2 Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA): The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

11.3 Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

11.4 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III also requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
Dichloropentafluoropropane	507-55-1	15 - 40%
3,3-Dichloro-1,1,1,2,2-Pentafluoropropane	422-56-0	10 - 30%

11.5 Inventory Status:

11.5.1 United States (TSCA): Yes, all the ingredients are on the inventory.

11.5.2 Canada (DSL): No, none of the ingredients are on the inventory.

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11.5.3 Europe (EINECS/ELINCS): No, none of the ingredients are on the inventory.

11.5.4 Australia (AICS): Yes, all the ingredients are on the inventory.

11.5.5 Japan (MITI): No, none of the ingredients are on the inventory.

11.5.6 South Korea (KECL): No, none of the ingredients are on the inventory.

11.6 OSHA Compliance: MSDS Prepared in accordance with OSHA 29 CFR 1910.1200 to comply with the Hazard Communication Standard.

11.7 RCRA Characteristics: Waste Classification: Product has not been evaluated for RCRA characteristics.

## SECTION XII • STATE RIGHT-TO-KNOW COMPLIANCE

12.1 California Proposition 65: This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

12.2 Massachusetts 105 CMR 670.000 Right-To-Know, Substance List (MSL): Hazardous substances and special hazardous substances on the list must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

12.3 New Jersey Right-To-Know, Substance List (MSL): Hazardous substances and special hazardous substances on the list must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

12.4 Pennsylvania Right-To-Know, Substance List (MSL): Hazardous substances and special hazardous substances on the list must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

MATERIAL	CAS NUMBER	UPPER BOUND CONCENTRATION
None	None	None

12.5 Other Regulatory Information: None.

## SECTION XIII • GLOSSARY OF TERMS

13.1 ACGIH – American Conference of Governmental Industrial Hygienists

13.2 OSHA – Occupational Safety and Health Administration

13.3 TLV – Threshold Limit Value

13.4 PEL – Permissible Exposure Limit

13.5 TWA – Time Weighted Average

13.6 STEL – Short Term Exposure Limit

13.7 NTP – National Toxicology Program

13.8 IARC – International Agency for Research on Cancer

13.9 N/A – Not Applicable

The information contained herein is current as of the date of this Material Safety Data Sheet and is furnished in good faith as typical values and not as a product specification. No warranty of any kind, either expressed

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or implied, is hereby made. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Urocare products, Inc., users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety of employees and customers.