

MATERIAL SAFETY DATA SHEET

URALITE 3271 PART A

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SECTION I - IDENTIFICATION  
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COMPANY NAME..... HEXCEL CORPORATION - RESINS GROUP  
20701 Nordhoff Street, PO Box 2197  
Chatsworth, CA 91311  
(818) 882-3022  
EMERGENCY PHONE NUMBER..... (800) 433-5072 (except California)  
(800) 343-4467 (Canada)  
CALIFORNIA EMERGENCY PHONE NUMBER. (800) 367-7527  
PRODUCT IDENTIFIER..... URALITE 3271 PART A  
CHEMICAL FAMILY..... URETHANE PREPOLYMER  
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SECTION II - HAZARDOUS INGREDIENTS  
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HAZARDOUS INGREDIENTS	PERCENT	PEL (OSHA)/ TLV (ACGIH)	CAS NUMBER
Aromatic Diisocyanate	2-10	NOT ESTABLISHED: RECOMMEND .005 ppm 8 hour TWA .02 ppm STEL	104-49-4
Aromatic Diisocyanate/ PTMEG Polymer	90-98	Not Established	Not Established

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CARCINOGEN LISTINGS BY OSHA, NTP OR IARC NO SPECIFIC LISTINGS  
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SECTION III - PHYSICAL DATA  
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BOILING POINT..... Not Available                      MELTING POINT.....60-70°F  
VOC (grams/liter)..... N/A                              DENSITY (g/ml).....1.00  
APPEARANCE AND ODOR... Hazy amber liquid to semisolid at 77°F.  
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SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
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FLASHPOINT & METHOD OF DETERMINATION. >400°F  
EMERGENCY RESPONSE..... NOT LISTED IN THE 1990 DOT EMERGENCY  
RESPONSE GUIDEBOOK.  
MEANS OF EXTINCTION..... Use dry chemical or CO<sub>2</sub> for small fires  
and water & foam for large ones.  
SPECIAL FIRE HAZARDS..... Since vapors are exceedingly irritating  
when inhaled, a self-contained breathing  
apparatus should be available to firemen.  
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SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE..... SKIN CONTACT-yes      INHALATION-yes      INGESTION-no

OVEREXPOSURE EFFECTS.. Vapors are exceedingly irritating to mucous membranes and eyes. Vapors may cause breathlessness, chest discomfort and reduced pulmonary function. Vapors may cause respiratory sensitization in susceptible individuals. Sensitized people will exhibit allergic respiratory reactions. Repeated exposure may cause skin irritation, leading to sensitization and dermatitis. Ingestion may cause gastro-intestinal burning and discomfort.

SPECIFIC FIRST AID PROCEDURES..... EYES: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: In case of contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before re-use and destroy contaminated shoes.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: If swallowed, get medical attention immediately. Induce vomiting ONLY upon the advice of a physician.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Stable

INCOMPATIBLE MATERIALS... Avoid contact with water, alcohols, strong bases, metal compounds or surface active materials.

HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon dioxide, carbon monoxide, and nitrogen oxides. Isocyanate vapors and mists may also evolve.

HAZARDOUS POLYMERIZATION. Will not occur.

CONDITIONS TO AVOID..... Moisture contamination may result in carbon dioxide gas pressure.

SECTION VII - SPILL OR LEAK PROCEDURE

RCRA WASTE NUMBER..... None

WASTE DISPOSAL..... Controlled incineration or buried landfill disposal should be in accordance with all federal, state and local environmental control regulations.

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LEAK AND SPILL PROCEDURES In case of spill, contain with a suitable diking material. Ventilate the area thoroughly. Keep all unnecessary people away. Spilled material should be absorbed in sawdust, sand or other absorbant. Place in an open-top container. Neutralize with a solution of 90-95% water, 5-8% concentrated ammonia and 1-2% detergent before disposal. Keep container open for at least 12 hours so that evolved carbon dioxide can escape.

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**SECTION VIII - SPECIAL PROTECTION**

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PERSONAL PROTECTION..... HMIS CODE H- Splash Goggles, Gloves, Synthetic Apron and Organic Vapor Respirator. AN APPROVED POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR IS REQUIRED WHENEVER AIRBORNE ISOCYANATE LEVELS EXCEED PERMISSIBLE EXPOSURE LIMITS.

VENTILATION..... If handled indoors, provide mechanical exhaust ventilation.

HANDLING PROCEDURES AND EQUIPMENT..... Avoid breathing vapors. Keep away from heat, sparks, and open flames. Use adequate ventilation. Wash thoroughly after handling.

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**SECTION IX - DOT SHIPPING INFORMATION**

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UN NUMBER..... 2810                      NA #.....N/A

DOT SHIPPING NAME... POISONOUS LIQUID, N.O.S. (Contains para-Phenylenediisocyanate) UN 2810

HAZARD CLASS..... Poison B (DOT)    Poison 6.1 (IATA)

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**SECTION X - STORAGE INFORMATION**

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STORE IN A COOL, WELL VENTILATED AREA IN TIGHTLY CLOSED CONTAINERS. AVOID MOISTURE CONTAMINATION.

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**SECTION XI - REGULATORY INFORMATION**

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NOTICE: The information herein is presented in good faith and believed to be accurate as of the preparation date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state and local laws. The following specific information is made for the purpose of complying with numerous federal, state and local laws and regulations. THIS INFORMATION IS NOT MEANT TO BE ALL-INCLUSIVE. SELECTED REGULATIONS ARE PRESENTED.

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the

HMIS Rating	
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Health	3
Flammability	1
Reactivity	1
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Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.  
None

CALIFORNIA PROPOSITION 65:

To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

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PREPARED BY..... Deirdre S. Crutchfield  
DATE PREPARED..... 03/09/92  
PHONE NUMBER OF PREPARER. (818) 882-3022

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FOOT NOTES

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REFERENCES

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DISCLAIMER: The information contained herein is accurate to the best of our knowledge, but no liability whatsoever is assumed. Final determination or suitability of a material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

THE PRODUCT FORMULATION INFORMATION CONTAINED HEREIN IS ONLY FOR OCCUPATIONAL SAFETY AND HEALTH RELATED USAGE. ANY MISUSE OF THIS INFORMATION, INCLUDING DIVULGENCE TO THIRD PARTIES OR USE TO GAIN A COMPETITIVE ADVANTAGE IS STRICTLY PROHIBITED.