

MATERIAL SAFETY DATA SHEET

Republic Powdered Metals, Inc.
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NPCA - HMIS RATING METHOD

HEALTH	2*
FIRE	2
REACTIVITY	1

I. PRODUCT IDENTIFICATION

MSDS # 503
 TRADE NAME: DURATHANE SEALANT
 SYNONYMS: Sealant.
 SHIPPING NAME -- US DOT: Not regulated
 IMDG: Not regulated
 IATA: Not regulated

II. INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	WEIGHT%	OSHA PEL	ACGIH TLV	SARA 313
Residual Diisocyanate (Poly MDI, MDI, TDI)	26471-62-5, 101-68-8 9016-87-9	<0.5	(0.02ppm ceiling)	0.005ppm	Yes
Aromatic Petroleum Solvent	64742-95-6	<16	100 ppm	50 ppm	No
NON HAZARDOUS COMPONENTS					
Aromatic Polyisocyanate Resins	T/S	N/A	N/E	N/E	No
Tackifying Resin	T/S	N/A	N/E	N/E	No
Calcium Carbonate*	1317-65-3	N/A	N/A	N/A	No
Titanium Dioxide (Varies with color)*		13463-67-7	N/A	N/A	N/A No
Thickener	T/S	N/A	N/E	N/E	No
Phthalate Plasticizer	T/S	N/A	N/E	N/E	No
Pigments/Colorants (Vary w/color) T/S	N/A	N/E	N/E	No	

* Nuisance dust hazard only when removing dry coating - 5 mg/M3 respirable fraction, no asbestos, <1% SiO2.
 TSCA Status: Ingredients are in compliance with TSCA inventory requirements.

III. PHYSICAL DATA

INITIAL BOILING POINT: 250°F	SPECIFIC GRAVITY (H ₂ O = 1): 1.3
VAPOR DENSITY: Heavier than air	SOLUBILITY IN WATER: Non-soluble
FREEZING POINT: N/A	EVAPORATION RATE: Slower than ether
APPEARANCE AND ODOR: Viscous liquid, mild petroleum odor.	pH: N/A
	VOC: 120 g/l

IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (Setflash): 150°F
 FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 0.6% UPPER: 7.0%
 EXTINGUISHING MEDIA: CO₂, water spray, water fog, dry chemical, foam. (Treat as a Class B Fire)
 SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus (NIOSH-approved), goggles, and full protective clothing. Use water spray to cool closed containers.
 UNUSUAL FIRE & EXPLOSIVE HAZARDS: Solvent vapors are heavier than air and may flow along surfaces to a source of ignition and flash back. Toxic gases may occur as decomposition products. Reaction with water produces carbon dioxide which could cause pressure to build-up in a container. Pressure may also build in closed container if heated.

V. REACTIVITY DATA

CONDITIONS TO AVOID: Keep from heat, sparks and flame.
 INCOMPATIBILITY: Avoid strong oxidizing agents, water, alcohol, strong acids, strong bases.
 HAZARDOUS POLYMERIZATION: Will not occur. STABILITY: Stable
 HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Nitrogen oxides, hydrogen cyanide, carbon monoxide and CO₂.

VI. HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE - AVENUE OF ENTRY:

EYES: Contact with liquid or vapor may irritate eyes.

SKIN: Possible irritation. May cause allergic skin reaction; effects may be permanent

INHALATION: Possible nasal irritation, dizziness, nausea, or headache. Overexposure may cause lung damage.

SWALLOWING: Toxic effects possible, can cause gastrointestinal problems.

OTHER PRECAUTIONS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm. (Proposition 65).

FIRST AID:

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes - get medical attention.

IF ON SKIN: Wash skin thoroughly with soap & water. Launder contaminated clothes.

IF INHALED: Remove to fresh air. If symptoms persist, get medical attention immediately

IF SWALLOWED: Get medical attention immediately.

Note: If any conditions persist or occur later, consult a physician and have MSDS and/or label information available.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate source if safe to do so. Absorb with inert material or allow to harden and scrape up. Take proper precautions throughout.

WASTE DISPOSAL METHOD: Incinerate or landfill in accordance with all applicable regulations.

PRECAUTIONS TO TAKE IN STORAGE AND HANDLING: Protect containers from physical damage. Keep containers closed when not in use. Keep product away from heat, sparks, and flame. For safety, store at temperature not exceeding 180°F. For maximum storage life, store at less than 90°F. Use with adequate ventilation. Avoid prolonged or repeated inhalation of vapor and skin contact.

CAUTION: KEEP OUT OF REACH OF CHILDREN.

VIII. SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use with adequate ventilation. Respirators with organic vapor cartridges or self-contained breathing apparatus may be used in confined areas. Follow respirator supplier's recommendations and directions for use. Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist.

VENTILATION: Local exhaust or general mechanical sufficient to prevent accumulation of fumes and vapors.

PROTECTIVE GLOVES: Oil resistant gloves such as buna-n, plastic or rubber.

EYE PROTECTION: Goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing and shoes recommended to prevent skin contact.

HYGIENIC PRACTICES: After using product, wash hands with soap and water.

IX. DISCLAIMER

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Republic or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

DEFINITIONS

HMB - Hazardous Materials Identification System
DOT - Department of Transportation
PEL - Permissible Exposure Limit
LC 50 - Lethal Concentration
RCRA - Resource Conservation & Recovery Act
T/S - Trade Secret

VOC - Volatile Organic Compound
CAS - Chemical Abstracts Service
TLV - Threshold Limit Value
LD 50 - Lethal Dose
CFR - Code of Federal Regulations
N/A - Not Available

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety & Health Administration
NPPA - National Paint & Coatings Association
SARA - Superfund Amendments & Reauthorization Act of 1986
NIOSH - National Institute for Occupational Safety & Health
N/E - Not Established

TRADE NAME: DURATHANE SEALANT

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ADDRESS: 2628 Pearl Road, Medina, OH 44256

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