

## PC81 Medium Urethane Reducer

## MATERIAL SAFETY DATA SHEET

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 ( HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling and disposing of this product.

Pass this information on to employees, customers, & users of this product.

## SECTION 1. CHEMICAL PRODUCTS &amp; COMPANY IDENTIFICATION / HAZARD RATINGS

PRODUCT IDENTITY:	Blend #9820 PC81 Medium Urethane Reducer	HEALTH RATINGS:	
COMPANY IDENTITY:	Powers Paper Company Inc.	HEALTH (NFPA) =	2
COMPANY ADDRESS:	1000 Armory Place Brandenburg, KY 40108	HEALTH (HMIS) =	2
COMPANY PHONE:	(270) 422-5561	FLAMMABILITY =	3
		REACTIVITY =	0

## SECTION 2. INGREDIENT &amp; REGULATORY INFORMATION

All components of this product are on the TSCA list.

## SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT. %	(REG.SECTION)	RQ (LBS)
Acetone	67-64-1	Not Appl.	(311, 312)	5000
Light Aliphatic Solvent Naphtha	*64742-89-8	Not Appl.	(311, 312)	None
Propylene Glycol Methyl Ether Acetate	108-65-6	Not Appl.	(311, 312)	None
Isobutyl Acetate	110-19-0	Not Appl.	(311, 312)	None
*Toluene	108-88-3	10	(311, 312, 313, RCRA)	1000
n-Butyl Acetate	123-86-4	Not Appl.	(311, 312)	5000
*Mixed Xylenes	1330-20-7	< 5	(311, 312, 313, RCRA)	100
*Ethylbenzene	67-56-1	< 5	(311, 312, 313, RCRA)	1000

SARA SECTION 311/312 HAZARDS:	Acute Health, Chronic Health, Fire			
MATERIAL	CAS#	TWA (OSHA)	TLV (ACGIH)	HAP
Acetone	67-64-1	1000 ppm	500 ppm	No
Light Aliphatic Solvent Naphtha	*64742-89-8	500 ppm	300 ppm	No
Propylene Glycol Methyl Ether Acetate	108-65-6	None Known	100 ppm	No
Isobutyl Acetate	110-19-0	150 ppm	150 ppm	No
*Toluene	108-88-3	200 ppm	50 ppm	Yes
n-Butyl Acetate	123-86-4	150 ppm	150 ppm	No
*Mixed Xylenes	1330-20-7	100 ppm	100 ppm	Yes
*Ethylbenzene	67-56-1	100 ppm	100 ppm	Yes

In addition to EPA Hazardous Air pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%) =  
Benzene, Cumene

MATERIAL	CAS#	CEILING	STEL (OSHA/ACGIH)
Acetone	67-64-1	None Known	750 ppm
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	5.3E3 ppm
n-Butyl Acetate	123-86-4	None Known	200 ppm
*Mixed Xylenes	1330-20-7	None Known	150 ppm
*Ethylbenzene	67-56-1	None Known	125 ppm

CALIFORNIA PROPOSITION 65: This product contains the following chemicals known to the state of California to cause cancer & reproductive toxicity: Benzene, Toluene

IF > 2381 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" IS EXCEEDED.

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG II

DRUM LABEL: (FLAMMABLE LIQUID)

### SECTION 3. HAZARDS IDENTIFICATION

MATERIAL	CAS#	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
*Toluene	108-88-3	3000.0 mg/kg (Rats)

THRESHOLD LIMIT VALUE: 175 ppm (Evaporated Blend)

CONTAINS: ACETONE, LIGHT ALIPHATIC SOLVENT NAPHTHA, PROPYLENE GLYCOL  
ETHER ACETATE,  
ISOBUTYL ACETATE, TOLUENE, N-BUTYL ACETATE, MIXED XYLENES, ETHYLBENZENE

DANGER!!

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE  
ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.  
Breathing vapor can cause irritation.  
Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.  
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver, & lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Due to metabolic differences, the results are not relevant in humans.  
This product may contain less than 52 ppm of Benzene.  
Not considered hazardous in such low concentrations.  
Absorption through skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

SECTION 4. FIRST AID MEASURES PROCEDURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.  
(Discard contaminated shoes)

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give

artificial respiration. CALL A PHYSICIAN IMMEDIATELY!

#### SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do NOT induce vomiting.

Have patient lie down & keep warm. Vomiting may lead to pneumonitis, which may be fatal

### SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE: 290 C / 555 F (Lowest Component)

LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.9

FLASH POINT (TEST METHOD): -16 C / 2 F (TCC) (Lowest Component)

FLAMMABILITY CLASSIFICATION: Class I B

#### EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires.

#### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.

Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

#### UNUSUAL EXPLOSION AND FIRE PROCEDURES

**EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE**

Keep container tightly closed.

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### SPILL OR LEAK PROCEDURES

Stop spill at source. Dike area & contain. Clean up remainder with absorbent materials. Mop up & dispose of. Persons

without proper protection should be kept from area until cleaned up.

#### WASTE DISPOSAL METHOD

Recycle or dispose of observing local, state & Federal health, safety & pollution laws. If questions exist, contact the appropriate agencies.

#### OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

### SECTION 7. HANDLING AND STORAGE

#### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Avoid contact with skin & eyes.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

#### STORAGE

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.

Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all

vapors are gone.

Do not store above 49 C / 120 F. Store large amounts in structures made for OSHA Class I B liquids.

Keep container tightly closed & upright when not in use to prevent leakage.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 90 ppm. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.

#### VENTILATION

LOCAL EXHAUST	= Necessary
MECHANICAL (GENERAL)	= Acceptable
SPECIAL	= None
OTHER	= None

#### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR:	Ketone
BOILING RANGE:	56 102 147 C / 133 216 298 F
GRAVITY @ 60 F:	
API:	39.3
SPECIFIC GRAVITY (Water = 1):	.829
POUNDS / GALLON:	6.903
VOC'S (>0.44 LBS / SQ IN):	84.9 Vol. % / 704.0 g/L / 5.863 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 828.7 g/L / 6.902 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	61.0 Vol. % / 519.8 g/L / 4.330 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS)	15.7 Wt. % / 130.5 g/L / 1.087 Lbs/Gal
VAPOR PRESSURE (mm of Hg) @ 20 C	106.5

NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	8.4
VAPOR DENSITY (air = 1) :	2.8
WATER ABSORPTION:	Appreciable
REFRACTIVE INDEX:	1.399
MIXED ANILINE POINT (Acid Insol)	33 C / 93 F

## SECTION 10. REACTIVITY DATA

### STABILITY

Stable

### CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment, & open flame.

### MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates, & peroxides.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

### HAZARDOUS POLYMERIZATION

Will not occur.

## NOTICE

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