

1.0 Identification

1.1 Product Identifier

Product Name: Poloplaz Moisture Cure Urethane

Application of the substance/the preparation: Moisture Cure Urethane Wood Finish

1.2 Relevant identified uses of the substance or mixture: Finishes, Coatings and Related Materials:
For Professional Use Only.

1.3 Supplier:

Poloplaz

1 Paradise Park Road

Jacksonville, AR 72076

Telephone: (501) 985-1172

www.poloplaz.com

1.4 Emergency contact:

Infotrac #: 1-800-535-5053

2.0 Hazards Identification

GHS Classification:

Flammable liquids:	Category 3
Skin irritation:	Category 2
Eye irritation:	Category 2A
Respiratory sensitization:	Category 1
Skin sensitization:	Category 1
Specific target organ toxicity-single exposure	Category 3
Specific target organ toxicity-repeated exposure	Category 1
Specific target organ toxicity-repeated exposure	Category 2
Aspiration hazard:	Category 1

GHS Label element

Hazard Pictograms:



Signal Word: Danger

Hazard Statements:

H226: Flammable liquid and vapors

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H372: Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention:

P102: Keep out of reach of children

P103: Read label before use

P202: Do not handle until all safety precautions have been read and understood

P210: Keep away from heat/sparks/open flames/hot surfaces-No smoking

P233: Keep container tightly closed

P241: Use explosion proof electrical/ventilating/light/equipment.

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well ventilated area

P272: Contaminated work clothing should not be allowed out of the workplace

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P285: In case of inadequate ventilation, use respiratory protection

Response:

P301 + P310 IF SWALLOWED; immediately call a POISON CENTER or doctor/physician.

P303+ P 361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304 + P 340 + P 312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P331 Do NOT induce vomiting

P333 + P313 If skin irritation or rash occurs: Get medical attention

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

Dispose of contents/and/or container according to Federal/State/Provincial and local governmental regulations.

Additional Information:

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

Other Hazards: Rags, steel wool and other waste soaked with this product along with sawdust from freshly sanded floors or dust from wood floors that have been abraded between coats may spontaneously catch fire if improperly discard. Dispose of rags, sawdust, steel wool, and waste products in a sealed metal container and in accordance with local fire regulations.

Warning: Reports have associated repeated and prolong exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients:

- Urethane polymer Proprietary 30 – 60%
- Xylenes 1330-20-7 30 – 60%
- Ethylbenzene 100-41-4 5 – 10%
- Methoxypropyl acetate 2- 108-65-6 1 – 5%
- Toluene diisocyanate 26471-62-5 0.1 – 1%

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First Aid Measures:

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. Skin contact: Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Get immediate medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Symptoms: See Section 11.

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

Notes to physician: Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates

5. Fire-Fighting Measures

Use NFPA Class B fire extinguishers (Carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

Special firefighting procedures: Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

Unusual fire or explosion hazards: During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Hazardous combustion products: Smoke. Oxides of carbon. Oxides of nitrogen.

6. Accidental release measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.

Clean-up methods: Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Dispose of contaminated material as waste according to Section

7. Handling and storage

Handling: Do not take internally. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not handle or store near an open flame, heat or other sources of ignition. Keep container closed.

Storage: For safe storage, store at or below 46 °C (114.8 °F)

For information on product shelf life, please review labels on container or check the Technical Data Sheet

8. Exposure controls/Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Urethane polymer	None	None	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) PEL	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None
Methoxypropyl acetate 2-	None	None	50 ppm TWA	None
Toluene diisocyanate	0.005 ppm TWA 0.02 ppm STEL (Sensitizer.)	None	None	None

Engineering controls:

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. Monitoring of airborne isocyanates in the breathing zone of individuals should become part of the overall employee exposure characterization program. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134). A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed.

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wear suitable protective clothing.

9. Physical and chemical properties

Physical state: Liquid Color: White

Odor: Solvent

Odor threshold: Not available

pH: Not available.

Vapor pressure: Not available.

Boiling point/range: Not available.

Melting point/ range: Not available.

Vapor density: Heavier than air

Flash point: 28.3 °C (82.94 °F)

Flammable/Explosive limits - lower: Not available.

Flammable/Explosive limits - upper: Not available.

Autoignition temperature: Not determined

Evaporation rate: Slower than diethyl ether.

Solubility in water: Not soluble.

Reacts with water to liberate carbon dioxide gas.

Partition coefficient (n-octanol/water): Not available.

VOC content: 57 % (calculated)

Viscosity: Not available.

Decomposition temperature: Not available.

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Hazardous reactions: Polymerization can occur.

Hazardous decomposition products: Smoke. Oxides of carbon. Oxides of nitrogen. Isocyanate vapors

Incompatible materials: Strong acids. Strong alkalis. Amines. Alcohols. Moisture. Reaction with water, formation of CO₂

Reactivity: Not available.

POLOPLAZ MOISTURE CURE URETHANE
SDS: 7/9/15 **Replaces: NA**

Conditions to avoid: Avoid excessive heat (>46°C (>115°F)) and sources of ignition. Avoid moisture. Container can be pressurised by carbon dioxide due to reaction with humid air and/or water. Protect from direct sunlight. Reactivity: No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms Inhalation:

This product may be harmful by inhalation. May cause lung damage. This product may cause sensitization by inhalation and skin contact. Overexposure to isocyanates may cause burning sensation of respiratory tract, cough, shallow breathing, burning sensation, tightness in chest, reduced lung function. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. High vapor concentrations may cause central nervous system depression (headache, nausea, dizziness).

Skin contact: This material is a primary skin irritant. May cause skin sensitization. May cause severe skin irritation. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering.

Eye contact: Contact with this product may cause severe eye irritation. Symptoms include itching, burning, redness and tearing. Conjunctivitis.

Ingestion: May be harmful or fatal if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspirated material can enter the lungs and result in pneumonitis.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Urethane polymer	None	Irritant, Allergen, Respiratory
Xylenes	Oral LD50 (RAT) = 6,670 mg/kg Oral LD50 (RAT) = 3,523 - 8,600 mg/kg Oral LD50 (RAT) = 4,300 mg/kg Dermal LD50 (RABBIT) = > 43 g/kg Inhalation LC50 (RAT, 4 h) = 6,350 mg/l	Cardiac, Central nervous system, Irritant, Kidney, Liver
Ethylbenzene	Oral LD50 (RAT) = 5.46 g/kg	Irritant, Central nervous system

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

Oral LD50 (RAT) = 3,500 mg/kg

Dermal LD50 (RABBIT) = 17,800 mg/kg

Methoxypropyl acetate 2- None Irritant, Central nervous system

Toluene diisocyanate Oral LD50 (RAT) = 3,060 mg/kg Allergen, Bone Marrow,
Inhalation LC50 (RAT, 1 h) Corrosive, Eyes, Irritant,
= 0.05696 mg/l Mutagen, Respiratory,
Inhalation LC50 (RAT, 4 h) Some evidence of
= 0.34888 mg/l carcinogenicity
Inhalation LC50 (RAT, 4 h)
= 0.356 mg/l
Inhalation LC50 (RABBIT, 4 h)
= 0.07832 mg/l
Inhalation LC50 (RAT, 4 h)
= 98.96 mg/l

12. Ecological Information:

Ecological information: Not available

13. Disposal Considerations

Information provided is for unused product only. Recommended method of disposal: Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product. Hazardous waste number: D001: Ignitable. Disposal methods

14. Transport Information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Resin solution

Hazard class or division: 3

Identification number: UN 1866

Packing group: III

International Air Transportation (ICAO/IATA)

POLOPLAZ MOISTURE CURE URETHANE
SDS: 7/9/15 **Replaces: NA**

Proper shipping name: Resin solution
Hazard class or division: 3
Identification number: UN 1866
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN 1866
Packing group: III

15. Regulatory information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Xylenes (CAS# 1330-20-7). Ethylbenzene (CAS# 100-41-4). Toluene diisocyanate (CAS# 26471-62-5)

CERCLA Reportable quantity: Xylenes (CAS# 1330-20-7) 100 lbs. (45.4 kg)
Ethylbenzene (CAS# 100-41-4) 1,000 lbs. (454 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. Other information

POLOPLAZ MOISTURE CURE URETHANE

SDS: 7/9/15

Replaces: NA

We recommend containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable Federal, State, and Local laws and regulations. Empty drums should not be given to individuals.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.