

# MATERIAL SAFETY DATA SHEET

Page 1 of 2

Forbo Flooring, Inc., P.O. Box 667, Hazleton, PA. 18202

24-Hour Emergency Telephone: (800) 424-9300

---

## SECTION 1. PRODUCT IDENTIFICATION

---

PRODUCT NAME: Moisture Limitor

CHEMICAL FAMILY: Acrylic Coating Solution

---

## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

---

Chemical Name	CAS Number	% by Weight	ACGIH TLV	OSHA PEL
Dipropylene Glycol	29911-28-2	2.5	100 ppm (TWA)	100 ppm (TWA)
n-Butyl Ether				

---

## SECTION 3. HAZARDS IDENTIFICATION

---

PRIMARY ROUTES OF ENTRY: Eyes, Skin, Inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight irritation, redness, tearing.

SKIN CONTACT: May cause slight irritation. Excessive contact may cause reddening.

INGESTION: May cause irritation to mouth, throat, and digestive system with upset stomach, nausea, diarrhea.

INHALATION: May cause slight irritation to throat, nose, and lungs if misted or as concentrated vapor.

CHRONIC: None known.

---

## SECTION 4. FIRST AID MEASURES

---

EYE CONTACT: Flush with water for 15 minutes. Call physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: To conscious person, give two glasses of water. Call physician.

INHALATION: Move person to fresh air.

---

## SECTION 5. FIRE-FIGHTING MEASURES

---

FLASH POINT (°F): None.

FIRE-FIGHTING INSTRUCTIONS: Water for dried material. Use protective clothing and self-contained breathing apparatus.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, oxides of nitrogen, NH<sub>3</sub>, smoke, and hydrocarbons.

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

---

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Contain spill. Transfer spill material to secure container(s). Dispense sand, sawdust, or vermiculite and absorb spill residue. Collect and place in waste container. Wash area thoroughly with water.

---

## SECTION 7. HANDLING AND STORAGE

---

HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.)

STORAGE: Store above 40° F. Keep from freezing.

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Wear safety glasses with side shields or splash goggles where contact with material is likely.

SKIN PROTECTION: Wear impervious rubber gloves and suitable protective clothing where contact with material is likely.

RESPIRATORY PROTECTION: Not normally required with good ventilation. Use a NIOSH approved respirator with organic cartridge under conditions where vapors are concentrated.

ENGINEERING CONTROLS: Normal room ventilation. Site-specific mechanical exhaust where processing conditions or location create accumulation or concentration of fumes.

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

---

BOILING POINT (°F): 212  
SPECIFIC GRAVITY (WATER = 1): 1.03  
VAPOR PRESSURE: Same as water.  
VAPOR DENSITY(air=1): Same as water.  
% VOLATILE BY WEIGHT: 74.5  
pH: 8.7  
APPEARANCE AND ODOR: Hazy, white thin liquid with mild acrylic odor.

---

## SECTION 10. STABILITY AND REACTIVITY

---

CHEMICAL STABILITY: Stable.  
POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: Addition of strong alkali.  
HAZARDOUS DECOMPOSITION PRODUCTS: None.

---

## SECTION 11. TOXICOLOGICAL INFORMATION

---

Dipropylene Glycol n-Butyl Ether (DPGnBE): Oral LD50 (male rat) - 4.4 g/kg; (female rat) – 3.7 g/kg. Skin LD50 (rats) > 2 g/kg; (male rabbits) –6.49 g/kg; (female rabbits) – 5.33 g/kg. Inhalation LC50 (rats) > 2.04 mg/l/4 hrs. In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative. DPGnBE has a very low order of toxicity. It may cause minor irritation to the eyes with reversible effects. It is not listed as a carcinogen by IARC, NTP, or OSHA.

---

## SECTION 12. ECOLOGICAL INFORMATION

---

Dipropylene Glycol n-Butyl Ether (DPGnBE): Bioconcentration potential is low (BCF less than 100). Potential for mobility in soil is very high (Koc between 0 and 50). Soil organic carbon/water partition coefficient (Koc) is estimated to be 10-21. Henry's law constant (H) is estimated to be 3.78-07 atm.m3/mole. Material is readily biodegradable. In an atmospheric environment, DPGnBE is estimated to have a tropospheric half-life of 2.6 hr. DPGnBE is practically nontoxic to aquatic organisms on an acute basis. Acute LC50 in guppy (Poecilia reticulata) is 841 mg/l. Acute LC50 in water flea (Daphnia Magna) is > 1000 mg/l.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

---

Dispose of in accordance with federal, state and local regulations.

---

## SECTION 14. TRANSPORT INFORMATION

---

For domestic transportation purposes, this product is not designated as a hazardous material by the U.S. Department Of Transportation.

---

## SECTION 15. REGULATORY INFORMATION

---

TSCA: The components of this product are listed on the TSCA inventory.

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[ ]	[ ]	[ ]	[ ]	[ ]

Section 313: No chemicals in amounts requiring notification.

VOLATILE ORGANIC CHEMICALS: < 2.6 % or 0.22 pounds/gal.

Dipropylene Glycol n-Butyl Ether – 2.5 %

HAZARDOUS AIR POLLUTANTS: None

CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:

SCAQMD Rule 1168: VOC compliant sealant.

SCAQMD Rule 443.1: Grams of VOC per Liter of Material: < 86 grams/liter.

Grams of VOC per Liter of Coating < 26 grams/liter.

---

## SECTION 16. OTHER INFORMATION

---

HMIS RATINGS: Health = 1 Flammability = 0  
Reactivity = 0 Personal Protective Equipment = B  
Hazard rating scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

---

Forbo Flooring, Inc. believes the statements, technical information and recommendations contained herein are reliable. They are given without warranty or guarantee of any kind, expressed or implied.

DATE ISSUED: March 1, 2009

[Rev. 1]

PREPARED BY: Frank Wiggins

---