MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc.
16910 Munn Road, Chagrin Falls, Ohio 44023

Product: 986 Terrra-Turf Adhesive

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

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: JOHNSONITE 986
CHEMICAL FAMILY: Water Base Adhesive

SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

Chemical Name	CAS Number	% by Weight	ACGIH TLV	OSHA PEL
None				

SECTION 3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Skin, eyes.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
POTENTIAL HEALTH EFFECTS:
EYE CONTACT: Can cause slight irritation.
SKIN CONTACT: No effects expected.
INGESTION: May cause discomfort to digestive system.
INHALATION: No effects expected.
CHRONIC: None known.
CARCINOGENICITY: This product contains no ingredient above the OSHA minimum reporting threshold listed as a carcinogen by IARC, NTP, or OSHA.

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: Do not induce vomiting. Contact a physician immediately.
INHALATION: Move person to fresh air.

SECTION 5. FIRE-FIGHTING MEASURES

FLASH POINT (^{o})F: None.
LOWER FLAMMABLE LIMIT: None. UPPER FLAMMABLE LIMIT: None.
FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.
EXTINGUISHING MEDIA: Water fog, CO_2, dry chemical, and chemical foam.
DECOMPOSITION PRODUCTS: Dried material may produce CO, CO_2, N_xO, and other products from the burning of hydrocarbons.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Place back into container for use if uncontaminated. For contaminated product scoop material into secure waste container. Dispense sand, sawdust, or vermiculite onto 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.) product will adhere to skin and clothing. Keep out of the reach of children.
STORAGE: Store above 40° F. Freeze-thaw stable up to five cycles at 20° F.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:
EYE/FACE PROTECTION: Wear splash goggles or safety glasses if contact with material is likely.
SKIN PROTECTION: Wear leather gloves where contact with material is likely.
RESPIRATORY PROTECTION: Not normally required with good ventilation.
ENGINEERING CONTROLS: Normal room ventilation. Use floor and ceiling fans, open doors and windows during application to ventilate work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (^{o}F): 212
SPECIFIC GRAVITY (WATER = 1): 1.24
VAPOR PRESSURE: Same as water.
VAPOR DENSITY(air=1): Same as water.
% VOLATILE BY WEIGHT: 21.0
pH: 10.15
APPEARANCE AND ODOR: Straw colored paste with mild odor.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: None.

SECTION 11. TOXICOLOGICAL INFORMATION

No information available.

SECTION 12. ECOLOGICAL INFORMATION

No information available.

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.
SARA TITLE III:
Section 311 and 312 Health and Physical Hazards:

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

Section 313 Chemicals:

Chemical Name	CAS#	% by Weigh
None		

CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:
Contains Solvent
SCAQMD Rule 1168 VOC Compliant
SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 1 grams/liter
Grams of VOC per Liter of Coating < 1 grams/liter

SECTION 16. OTHER INFORMATION

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

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DATE ISSUED: January 3, 2012 CONTACT: Don Styka