

NeverStrip
FLOOR COATINGS

NeverStrip Satin Parts A-B



SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Polymeric resin; Part A of a 2-part floor coating system

PRODUCT DESCRIPTION: Water reducible polyol

MANUFACTURER

NeverStrip Corporation, Inc.

DATE PREPARED: May 9, 2011

SUPERSEDES: Original

ADDRESS

111 S. Grant Street

Hinsdale, IL 60521

TELEPHONE NUMBER FOR INFORMATION

(630)-330-1010

EMERGENCY TELEPHONE NUMBER

(630)-330-1010

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: Polyol resin, white, milky liquid; contact will cause eye irritation and may cause minor skin irritation. Ingestion may cause minor gastric distress. Will support combustion if involved in fire.

Potential Health Effects

EYE: Contact with eyes will cause irritation.

SKIN: None expected. However, prolonged contact may cause irritation.

INGESTION: May cause gastric distress, vomiting and diarrhea. Any material aspirated during vomiting may cause lung injury.

INHALATION: None expected. However, prolonged contact may cause irritation

Chronic Effects / Carcinogenicity

NTP Listed: No

IARC Group 1 or 2A: No

OSHA Regulated: No

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Registry No.</u>	<u>Percentage (wt/wt)</u>
Trimethylolpropane monoallyl ether	682-55-1	1 – 5

OSHA Regulatory Status: This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4 – FIRST AID MEASURES

EYE: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting unless directed to do so by medical personnel; never give anything by mouth to an unconscious person; seek medical attention.

INHALATION: Remove affected person to fresh air. If symptoms persist seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Product is not considered flammable or combustible. However, it will support combustion if involved in a fire.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, chemical foam

MEDIA NOT TO BE USED: None known

FIRE & EXPLOSION HAZARDS: None

FIRE FIGHTING INSTRUCTIONS: Keep containers cool with water spray to prevent container rupture due to steam buildup; contact with material may cause irritation to skin, eyes and respiratory tract.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, fumes, oxides of carbon and nitrogen.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off source of leak if safe to do so. Dike and contain product. Confine spill, soak up with clay, sand or other approved absorbent; shovel product into approved container for disposal. Wash area with plenty of water. Do not discharge into lakes, ponds, streams or public waters.

SECTION 7 – HANDLING AND STORAGE

HANDLING Keep away from food and drink. Wash hands before eating.
STORAGE Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS The use of local exhaust ventilation is recommended. No other special controls are indicated.
RESPIRATORY PROTECTION None required. If misting occurs, wear NIOSH approved respirator capable of removing particulate from air. Refer to 29 CFR 1910.134, or CSA Z94.4-93.
SKIN PROTECTION Recommended for general protection
EYE PROTECTION Goggles with side shields; safety eyebath nearby. Refer to 29 CFR 1910.133, or CSA Z94.3-M1982.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

EXPOSURE GUIDELINES	OSHA PEL		ACGIH TWA	ACGIH STEL
<u>Chemical</u>	ppm	mg/m ³	ppm	ppm
None	-	-	-	-

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE White, milky liquid
ODOR Slightly sweet odor
BOILING POINT 212 °F (100° C)
FREEZING POINT 32 °F (0° C)
VAPOR PRESSURE 17 mm Hg @ 20 ° C
SOLUBILITY IN WATER Totally miscible
SPECIFIC GRAVITY 1.043
PH 8.5
VOLATILE ORGANIC COMPOUNDS < 10 g/l
VISCOSITY Not determined
FLASH POINT [METHOD] Does not flash
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	Stable
MATERIALS TO AVOID	Can react vigorously with strong oxidizers, strong acids, mineral and organic bases, primary and secondary aliphatic amines.
CONDITIONS TO AVOID	Extreme temperatures
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, nitrogen, hydrocarbons, fumes, and smoke may be produced.
HAZARDOUS POLYMERIZATION	May occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Component</u>	<u>LD50 Oral (rat)</u>	<u>LD50 Dermal (rabbit)</u>	<u>LC50 Inhalation (rat)</u>
Trimethylolpropane monoallyl ether	> 5000 mg / kg	Not available	Not available

SECTION 12 – EXOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal Regulations. Product is classified as non - hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Consult your local, state, Provincial or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 – TRANSPORT INFORMATION

US DOT	Not regulated
Proper Shipping Name:	
UN Number:	
Packing Group:	
Special Instructions:	
IATA	Not regulated
Proper Shipping Name:	
UN Number:	
Packing Group:	
Special Instructions:	
IMDG	Not regulated
Proper Shipping Name:	
UN Number:	
Packing Group:	
Special Instructions:	

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
None

313 Reportable Ingredients:

None

CERCLA (Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

CANADA

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Classification: D2B



DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

SECTION 16 – OTHER INFORMATION

HMIS HAZARD RATINGS	
Health	1
Flammability	0
Physical hazard	0
Personal Protection	B

HMIS SYSTEM

0 = Insignificant hazard 3 = High
1 = Slight 4 = Extreme
2 = Moderate * = Chronic health hazard
B=Safety Glasses, Gloves

PREPARATION INFORMATION:

Effective date: May 9, 2011
Replaces: Original

MSDS Changes: Not applicable

For information about this MSDS, contact Regulatory Affairs: (903) 454-8981

To the best of our knowledge, the information contained herein is accurate. However, NeverStrip Corporation, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Aliphatic polyisocyanate curing agent; Part B of a 2-part floor coating system

PRODUCT DESCRIPTION: Yellow liquid, practically odorless

MANUFACTURER
NeverStrip Corporation, Inc.

DATE PREPARED: May 9, 2011
SUPERSEDES: Original

ADDRESS
111 S. Grant Street
Hinsdale, IL 60521

TELEPHONE NUMBER FOR INFORMATION
(630)-330-1010

EMERGENCY TELEPHONE NUMBER
(630)-330-1010

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: Yellow liquid, nearly odorless. May cause eye and skin and respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled or swallowed. May cause lung damage. Individuals who have developed skin sensitization can develop symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor. Toxic gases are emitted during burning or thermal decomposition.

Potential Health Effects

- EYE:** Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.
- SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate reddening. Swelling and possible necrosis. Chronic exposure may result in skin sensitization, which can cause symptoms as a result of contact with very small amounts of liquid material or as result of exposure to vapor. Cured material is hard to remove.
- INGESTION:** Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.
- INHALATION:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise. Chronic overexposures, or a single large dose, may cause isocyanate sensitization and subsequent reaction to a later exposure to isocyanate at levels well below the TLV

Chronic Effects / Carcinogenicity

NTP Listed: No

IARC Group 1 or 2A: No

OSHA Regulated: No

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Registry No.</u>	<u>Percentage (wt/wt)</u>
Homopolymer of hexamethylene diisocyanate	28182-81-2	94 - 97
Poly(oxy-1,2-ethanediy)l..alpha.-tridecyl-.omega.-hydroxy-, phosphate	9046-01-9	1 - 5
N,N-Dimethylcyclohexylamine	98-94-2	0.5 – 1.5
Hexamethylene diisocyanate (monomer)	822-06-0	< 0.5

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 4 – FIRST AID MEASURES

- EYE:** Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.
- SKIN:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
- INGESTION:** DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.
- INHALATION:** Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Product will support combustion

EXTINGUISHING MEDIA:

Carbon dioxide, water fog, dry chemical, chemical foam

MEDIA NOT TO BE USED:

None known

FIRE & EXPLOSION HAZARDS:

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material will support combustion!

FIRE FIGHTING INSTRUCTIONS:

Firefighters must wear full facepiece, self-contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

HAZARDOUS DECOMPOSITION PRODUCTS:

Smoke, fumes, oxides of carbon

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer. All spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Pump any free liquid into an appropriate closed container. Clean up spill area with a decontaminating solution made up of 50% isopropanol, 45% water and 5% concentrated ammonia solution (% by weight). The solution should cover the area for at least one hour. Collect washings for disposal.

SECTION 7 – HANDLING AND STORAGE

HANDLING

Keep away from food and drink. Wash hands before eating.

STORAGE

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. Store, transfer and handle under a blanket of nitrogen. Before closing partially empty containers, blanket with dry nitrogen. Recommended container material: aluminum, steel. Container material to avoid: polystyrene, copper, tin. CAUTION - This material will support combustion. Keep this and other chemicals out of reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 8 for Component Exposure Guidelines.

RESPIRATORY PROTECTION

None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator approved for use in isocyanate - containing environments must be worn. Refer to 29 CFR 1910.134, or CSA Z94.4-93.

SKIN PROTECTION

Neoprene or rubber gloves with cuffs.

EYE PROTECTION

Chemical splash goggles; safety eyebath nearby. Refer to 29 CFR 1910.133, or CSA Z94.3-M1982.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Coveralls, apron, or other equipment should be worn to minimize skin contact.

EXPOSURE GUIDELINES

Chemical

	OSHA PEL		ACGIH TWA	ACGIH STEL
	ppm	mg/m ³	ppm	ppm
Homopolymer of hexamethylene diisocyanate*	-	0.5 TWA	-	-
Hexamethylene diisocyanate (monomer)	0.005	-	0.005	-

* The ACGIH Threshold Limit Value (TLV) has not been established nor has OSHA established the Permissible Exposure Limit (PEL) for this material, therefore 0.5 mg/m³ has been established as guidelines by the manufacturer.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Yellow liquid,
ODOR	Practically odorless
BOILING POINT	302 °F (150 °C)
FREEZING POINT	Not determined
VAPOR PRESSURE	Not available
SOLUBILITY IN WATER	Dispersible
SPECIFIC GRAVITY	1.130
pH	Not applicable
VOLATILE ORGANIC COMPOUNDS	None
VISCOSITY	Approx 1400 mPa's @ 77° F (25° C)
FLASH POINT [METHOD]	> 450 ° F (232.2° C) [UNKNOWN]
FLAMMABLE LIMITS	LEL: Not applicable UEL: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	Stable
MATERIALS TO AVOID	Strong oxidizers, water, amines
CONDITIONS TO AVOID	Extreme temperatures, open flames.
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon and nitrogen, HCN, HDI, hydrocarbons, fumes, and smoke may be produced.
HAZARDOUS POLYMERIZATION	May occur. Contact with moisture may cause polymerization

SECTION 11 – TOXICOLOGICAL INFORMATION

Component	LD50 Oral (rat)	LD50 Dermal (rabbit)	LC50 Inhalation (rat)
Homopolymer of hexamethylene diisocyanate	> 10,000 mg / kg	Not available	137 - 1150 mg/m ³ / 4H
N,N-Dimethylcyclohexylamine	348 mg/kg	Not available	1,889 mg/m ³
Hexamethylene diisocyanate (monomer)	710 mg / kg	Not available	275 mg / m ³

SECTION 12 – EXOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, Provincial, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

SECTION 14 – TRANSPORT INFORMATION

US DOT	Not regulated
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Proper Shipping Name:

UN Number:

Packing Group:

Special Instructions:

IATA

Not regulated

Proper Shipping Name:

UN Number:

Packing Group:

Special Instructions:

IMDG

Not regulated

Proper Shipping Name:

UN Number:

Packing Group:

Special Instructions:

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

UNITED STATES

TSCA (Toxic substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Immediate and chronic health

313 Reportable Ingredients:

None above 1%

CERCLA (Comprehensive Response Compensation and Liability Act)

Hexamethylene diisocyanate – RQ – 100 lbs (45 kg)

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

CANADA

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Classification: D2B



DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

SECTION 16 – OTHER INFORMATION

HMIS HAZARD RATINGS	
Health	2*
Flammability	1
Physical hazard	0
Personal Protection	B

HMIS SYSTEM

0 = Insignificant hazard 3 = High
 1 = Slight 4 = Extreme
 2 = Moderate * = Chronic health hazard
 B=Safety Glasses, Gloves

PREPARATION INFORMATION:

Effective date: May 9, 2011
 Replaces: Original
 MSDS Changes: Not applicable
 For information about this MSDS, contact Regulatory Affairs: (903) 454-8981

To the best of our knowledge, the information contained herein is accurate. However, NeverStrip Corporation, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.