

SECTION I - IDENTITY

#1333 Trusty Step Non Slip Clear Wood Coating

Trusty-Step International
271 Western Avenue
Suite 103
Lynn, MA. 01904

Telephone Number for Information (781)-598-1400
Emergency Phone Number – Local Poison Control Center
Date Prepared – December 11, 2014
Prepared By – David Sadlo

SECTION II – INGREDIENT

INGREDIENT	CAS#	RANGE BY WEIGHT (%)
Water	7732-18-5	Balance to 100
Polyurethane Resin	Proprietary	31 - 32
1-Methyl-2-Pyrrolidinone	870-50-4	4 - 6
Triethylamine	121-44-8	1 - 2

SECTION III – HEALTH HAZARD DATA

Emergency Overview – May cause eye and skin irritation

Exposure Routes – Skin contact, eye contact, ingestion

Eye Contact – May cause mild eye irritation. Symptoms include stinging, tearing and redness.

Skin Contact – May cause mild skin irritation. Symptoms may include redness, itching and burning sensation of the skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion – Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts of this material may be harmful and could result in irritation of the gastrointestinal tract.

Inhalation - No hazards known or associated with normal usage

Aggravated medical Conditions – Eyes and skin

SECTION IV – FIRST AID MEASURES

Eyes – If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Seek medical attention if irritation of eyes develops.

Skin – If the material gets on the skin wash affected area with soap and water and remove contaminated clothing. Seek medical attention if rash or irritation develops.

Ingestion – Swallowing small amounts of material will not cause significant harm. If large amounts of material are ingested give one or two glasses of water or milk to drink. Seek medical attention.

DO NOT INDUCE VOMITTING

Inhalation – Move to fresh air. If breathing is difficult administer oxygen. Seek medical attention

SECTION V – FIRE FIGHTING MEASURES

Suitable extinguishing media – Carbon Dioxide, foam, dry chemical, water spray.

Hazardous combustion products – Carbon monoxide, carbon dioxide, nitrogen oxides.

Fire/Explosion Hazard – This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat. Air oxidation of this product may cause it to spontaneously combust. To avoid spontaneous combustion, prevent residue build-up and soak soiled rags, spray-booth filter and over-spray in a closed water-filled metal container.

Precautions for firefighting – Wear full firefighting gear and use respiratory protection (SCBA)

SECTION VI – ACCIDENTAL RELEASE MEASURES

Small Spills – Absorb with inert material. Small amounts of material can be flushed, material is biodegradable.

Large Spills – Dike and collect material into chemical waste container for proper disposal.

Environmental Precautions – Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required for proper disposal.

SECTION VII – HANDLING AND STORAGE

Handling - As with all chemical products, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking.

Storage – Store in cool dry area away from heat, open flame, or sparks. Do not mix with other chemicals.

KEEP OUT OF REACH OF CHILDREN

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

General advice – The recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure Controls – Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain airborne levels.

Eye Protection – Not needed under normal working conditions.

Skin Protection – Chemical resistant gloves can be worn when using material but are not required.

SECTION IX – PHYSICAL PROPERTIES

Color	Hazy Pale Yellow
Odor	Mild, Amine
Boiling Point	212°F
Melting Point	Not Applicable
Decomposition Temperature	Not Applicable
Auto Ignition Temperature	Not Applicable
pH	8.0 – 9.0
Vapor Pressure (mm Hg)	17
Vapor Density (air=1)	1.00
Specific Gravity (water =1)	1.02
Evaporation Rate (Butyl acetate=1)	0.30
Solubility in Water	Complete

SECTION X – STABILITY AND REACTIVITY

Stability – This product is stable

Conditions to Avoid – Heat, open flames and other ignition sources.

Incompatible Products – Avoid contact with strong bases, strong acids or strong oxidizing agents.

Hazardous Decomposition – Thermal decomposition on burning may produce toxic gasses.

Hazardous Reactions – Product will not undergo hazardous polymerization.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

1-Methyl-2-Pyrrolidinone

Oral LD 50 Rat: 4,150 mg/kg

Dermal LD50 Rat: 7,000 mg/kg

Inhalation LC50 Rat: > 5 mg/l (4 Hours)

Triethylamine

Oral LD 50 Rat: 460 mg/kg

Dermal LD50 Rabbit: 416 mg/kg

Inhalation LC50 Rat: > 1000 ppm (4 Hours)

Chronic Toxicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen or potential carcinogen by NTP, OSHA and or IARC.

Reproductive Toxicity

Adverse effects on reproduction have been reported in rats after ingestion of amounts of 1-Methyl-2-Pyrrolidinone which also caused mild generalized changes in the parental animals. Fetal effects have been noted in pregnant animals exposed by ingestion, inhalation and skin contact, and occurred both in the presence and absence of maternal toxicity.

Target Organs

Eyes, Central Vascular System, Kidney, Liver, Central Nervous System

SECTION XII – Ecological Information

Ecotoxicity

Ecotoxicity Effects: No information available

Bioaccumulation: No information available

1-Methyl-2-Pyrrolidinone

Log Kow	-0.46
Algae	EC50 > 500 mg/l (Desmodesmus subspicatus) (72h)
Aquatic Invertebrates	EC50 = 4897 mg/l (Daphnia magna) (48h)
Fish	LC50 = 832 mg/l (Lepomis macrochirus) (96h) static LC50 = 4000 mg/l (Leuciscus idus) (96h) static LC50 = 1072 mg/l (Pimephales promelas) (96h) static LC50 = 1400 mg/l (Poecilia reticulata) (96h) static

Triethylamine

Log Kow	1.45
Bioconcentration Factor	<4.9
Aquatic Invertebrates	EC50 = 2000 mg/l (Daphnia magna) (48h)
Fish	LC50 = 43.7 mg/l (Pimephales promelas) (96h) static

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods – Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your local State Water Board or Regional Office of the EPA.

SECTION XIV – TRANSPORTATION INFORMATION

Unit Containers – 55,30,5,1 Gallon
1 Quart Plastic

Reportable Quantity – Not Applicable

TDG – Not Regulated

DOT – Not Regulated

IATA – Not Regulated

IMDG/IMO – Not Regulated

SECTION XV – REGULATORY INFORMATION

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

Canadian Inventory Status: This material contains components that are NT listed on the Canadian

Domestic Substances List (DSL).

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

US Federal Regulations:

Section 313 of Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS#	Weight (%)	SARA 313 Status
Triethylamine	121-44-8	1 – 2	Listed

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

TSCA 12(b) – Export Notification:

This material does not contain any components that are subject to the US Toxic Substances Control act (TSCA) section 12(b) Export Notification requirements.

Clean Air Act, Section 12 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Component	CAS#	Weight (%)	HAPS Data
Triethylamine	121-44-8	1 – 2	

Chemical Weapons Convention (CWC):

This product does not contain any listed substances.

California Prop. 65 – This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

SECTION XVI – OTHER INFORMATION

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty - The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.