



SAFETY DATA SHEET

707: TWO COMPONENT - HARDENER

Conforms to 1910.1200
Issued: Sept. 13, 2023
Supersedes: May 30, 2016

TIMBERGUARD PRO™ HARDENER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: TimberGuard Pro Hardener **Product Number:** 707

Recommended Use: Hardener for two component wood floor finish
To be used with TimberGuard Pro Wood Floor Finish.
Product intended for commercial and industrial use only.

Uses Advised Against: Other than per labelled instructions

Manufacturer Address:

Amano Pioneer Eclipse Corporation
P.O. Box 909
1 Eclipse Road
Sparta, NC 28675
Telephone: 1-336-372-8080
Email: sds@pioneereclipse.com
Internet: www.pioneereclipse.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

Classification: Flammable Liquid - Category 4
Acute Toxicity (Inhalation) -Category 4
Eye Irritation - Category 2B
Skin Sensitization - Category 1
Specific Target Organ Toxicity (Single Exposure) - Category 3

Signal Word: Warning

Pictogram:



Hazard Statements:

- Combustible liquid.
- Harmful if inhaled.
- Causes eye irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.

Precautionary Statements:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep cool.
- Avoid breathing mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/eye protection/face protection.
- Wash contaminated clothing before reuse.
- In case of fire: Use CO2, dry chemical or foam to extinguish.
- Store in a well-ventilated place.
- Store locked up.
- Dispose of contents and container in accordance with local, regional, national and international regulations.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical attention/advice.
- IF ON SKIN: Wash with plenty of water.
- If skin irritation or rash occurs: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.



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Other Hazards: None known

Supplemental Information: None

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Weight % *
aliphatic polyisocyanate	160994-68-3	60 - 80
dipropylene glycol dimethyl ether	111109-77-4	30 - 40

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

- Eye Contact:** Flush eyes with plenty of warm water, for at least 15 minutes. If easy to do, remove contact lenses if worn. If irritation persists, seek medical attention.
- Skin Contact:** Wash with soap and plenty of warm water. If irritation persists, seek medical attention.
- Inhalation:** If breathing is difficult, remove subject to fresh air. If symptoms persist, seek medical attention.
- Ingestion:** Call a physician or poison control center. Do NOT induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Seek medical advice.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Causes eye irritation.
- Skin Contact:** May cause mild irritation. May cause an allergic skin reaction.
- Inhalation:** Harmful if inhaled. May cause respiratory tract irritation. Asthmatic symptoms may develop and may be immediate or delayed up to several hours.
- Ingestion:** May cause irritation of the digestive tract.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Dry chemical, Carbon dioxide (CO2), Foam, water spray for large fires. Do NOT spray a solid stream of water or foam directly in hot liquid.

Specific Hazards:

Combustible liquid. Closed container may forcibly rupture under extreme heat or when contents are contaminated with water. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

Protective Equipment and Precautions:

Fire fighters should wear NFPA compliant firefighting protective equipment, including self-contained breathing apparatus. During a fire, isocyanate vapors and other irritating gases may be generated by thermal decomposition or combustion.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling. Ventilate and remove ignition sources.

Environment Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

Large Spills: Dike and contain spill with inert material (e.g. sand, earth). Neutralize spill area. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.

Waste Disposal: Do not fill the disposal container more than 2/3 full to allow for expansion and do not tighten the lid on the container. Store in an isolated, well-ventilated area. After 72 hours seal the container and properly dispose of the waste material and contaminated equipment in accordance with local, state and federal regulations.



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7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapors or mists. Keep away from ignition sources.

Conditions for Safe Storage: Store in tightly closed containers to prevent moisture contamination. Storage temperature (Max. 30°C/86°F - Min. 0°C/32°F).

Other Information: Keep container sealed when not in use. Keep out of reach of children. Do not reseal if contamination is suspected.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Ingredient	CAS Number	ACGIH		Vendor Recommendation	
		TWA	STEL	TWA	STEL
Aliphatic polyisocyanate	160994-68-3	-	-	0.5 mg/m3	1.0 mg/m3
Hexamethylene-1,6-Diisocyanate	822-06-0	0.005 ppm	-	-	-

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear eye protection.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator. If respirator is needed, use a properly fitted air-purifying (combination organic vapor and particulate) respirator.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, colorless liquid

Odor: slight odor

Odor Threshold: data not available

pH: data not available

Freezing Point: data not available

Boiling Point: 347 °F / 175 °C

Flash Point: 142 °F / 61 °C

Evaporation Rate: data not available

Flammability (solid/gas): not applicable to liquids

Flammability limits: data not available

Vapor Pressure: data not available

Vapor Density: data not available

Relative Density: 8.8 lb/gal @ 68°F / 1.06 kg/l @ 20°C

Solubility: data not available

Partition Coefficient: data not available

Auto Ignition temperature: 572 °F / 300 °C

Decomposition Temperature: data not available

Viscosity: data not available

VOC: data not available

10: STABILITY AND REACTIVITY

Reactivity: Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F/177°C may cause polymerization. Moisture or high heat (>350°F/177°C) can cause pressure build-up with possible rupture.

Stability: Stable under normal conditions of use and storage.



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Hazardous reactions: None expected under normal conditions of use and storage.
Conditions to avoid: Avoid heat, flames and sparks.
Incompatible materials: Avoid contact with water, amines, strong bases, alcohols and copper alloys.
 Do not mix with other chemicals unless stated on the product label.
Hazardous decomposition products: Carbon oxides (CO₂ & CO), nitrogen oxides, isocyanates, isocyanic acid

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Toxicity testing has not been completed on the mixture.
 ATE_{mix} (oral): > 5000 mg/kg
 ATE_{mix} (dermal): > 2000 mg/kg
 ATE_{mix} (inhalation): 1.5 mg/l (4 hr/vapor) Harmful if inhaled.

LOCAL EFFECTS

Skin contact: May cause mild irritation.
Eye contact: May cause irritation.
Sensitization: May cause an allergic skin reaction.
Chronic effects: May cause respiratory irritation (asthma or asthma-like symptoms).

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

COMPONENT INFORMATION

Component	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat (mg/l)
aliphatic polyisocyanate	>2000	>2000	0.39, 4hr
dipropylene glycol dimethyl ether	3300	>2000	data not available

Carcinogenicity: Components are not known to be listed carcinogens (IARC, NTP, OSHA).

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

14: TRANSPORT INFORMATION

This material ships as non-regulated for domestic transportation by highway and rail.

UN Number: NA1993
UN Proper Shipping Name: Combustible liquid, n.o.s. (contains Dipropylene glycol dimethyl ether)
Hazard Class: Comb liq
Packing Group: III
Marine Pollutant: N/A
Transport in Bulk: N/A
Other Information: Reclassified as a combustible liquid.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING: Components are not subject to reporting (SARA 302/304, SARA 313, CERCLA).



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STATE RIGHT-TO-KNOW STATUS:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
aliphatic polyisocyanate	160994-68-3	present	present	present	present

CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.

CANADA REGULATIONS/REPORTING: This product has been classified in accordance with the hazard criteria of the Hazardous Product Regulation (*HPR*) and the SDS contains the information required by the *HPR*.

16: OTHER INFORMATION

Abbreviations Used:

- ACGIH American Conference of Governmental Industrial Hygienists
- CAS Chemical Abstract Service Number
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act
- IARC International Agency for Research on Cancer
- LC50 Median Lethal Concentration
- LD50 Median Lethal Dose
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- SARA Superfund Amendments and Reauthorization Act
- STEL Short-Term Exposure Limit
- TWA Time Weighted Average

Revision Information:

Sept. 13, 2023 - Revisions § 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14 & 16

Health:	2
Flammability:	2
Reactivity:	0

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This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****