

Section 1: Identification




Product Name:	Last-n-Last Clear Polyurethane Wood Finish Satin and Semi-Gloss
Product Code:	5310, 5320
Product Use:	Wood Finish
Manufacturer:	Absolute Coatings, Inc. 38 Portman Road New Rochelle NY 10801
Phone Number:	(914) 636-0700

EMERGENCY PHONE # FOR CHEMICAL SPILLS, LEAKS, OR EXPOSURE:

CHEMTEL: 800-255-3924 (24 HRS.)

Nat'l. Poison Control Center: 800-222-1222

Section 2: Hazards Identification

NFPA (USA)	WHMIS Classification (Canada)	Transport Symbol	Personal Protective Equipment
		Ship as a Consumer Commodity	

Emergency Overview:	Appearance, Color and Odor: Amber liquid, mild solvent-like odor. Combustible liquid and vapor. Irritating to eyes, respiratory system and skin. Aspiration hazard, may be fatal if swallowed and enters airways.
	USA: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Canada: This is a controlled product under WHMIS.
Potential Health Effects:	ACUTE (short term): see Section 8 for exposure controls
Relevant Route(s) of Exposure:	Inhalation, Ingestion, Skin contact, Eye contact
Inhalation:	Vapors from this product may cause drowsiness, dizziness and can be irritating to the mucous membranes of the respiratory system. Symptoms of over-exposure include headache, nausea, light-headedness, drowsiness, dizziness, loss of coordination and possibly unconsciousness.
Ingestion:	Swallowing may cause vomiting and irritation to the mouth and digestive system. Product is very hazardous if aspirated into the lungs during swallowing or vomiting. Aspiration into the lungs may cause pulmonary edema, a life-threatening condition; symptoms of pulmonary edema may be delayed several hours. Symptoms of exposure by ingestion include nausea and vomiting, headache, light-headedness, drowsiness, loss of coordination and possibly unconsciousness.
Skin:	Irritating to the skin. Some components may be absorbed through the skin. Widespread or prolonged skin contact may result in absorption of harmful amounts. Symptoms of over-exposure include headache, nausea, light-headedness, drowsiness, loss of coordination and possibly unconsciousness.
Eye:	Direct contact with the eyes is expected to cause moderate to severe irritation.

Section 2: Hazards Identification - Continued

	CHRONIC (long term): see Section 11 for additional toxicological data Long-term, high level exposure by inhalation and skin contact may cause neurological effects with symptoms such as excessive fatigue, reduced memory, pain and numbness in the legs, arms, hands and feet and behavioral changes. Repeated or prolonged skin contact may cause dermatitis, with symptoms of redness, blisters, dryness and cracking of the skin.
Medical Conditions Aggravated by Exposure:	Skin contact may aggravate an existing dermatitis.
Interactions With Other Chemicals:	Skin contact may enhance the absorption through the skin of other chemical substances.
Potential Environmental Effects:	Not available. Do not allow the material to be released into the environment.

Section 3: Composition / Information on Ingredients**Hazardous Ingredients:**

Chemical Name	CAS No.	Wt.%
Oil modified Polyurethane Resin	Proprietary	30 - 60
Mineral spirits	64742-88-7	10 - 30
Stoddard Solvent	8052-41-3	10 - 30
Methyl Ethyl Ketoxime	96-29-7	0.1
Silicone Dioxide	112926-00-8	1.5-4.0

Section 4: First Aid Measures

Inhalation:	If symptoms develop, remove source of contamination or have victim move to fresh air. If breathing has stopped, properly trained personnel should begin artificial respiration or cardiopulmonary resuscitation (CPR) immediately. Obtain medical advice immediately.
Eye Contact:	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes while holding the eyelids open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical advice immediately.
Skin Contact:	As quickly as possible remove contaminated clothing, shoes, and leather goods (e.g. watchbands and belts). Immediately flush with lukewarm, gently flowing water for 15-20 minutes. Completely decontaminate clothing, shoes and leather goods before reuse or discard. Obtain medical advice immediately.
Ingestion:	Immediately obtain medical attention. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.
Notes to Physician:	Aspiration hazard if ingested.

Section 5: Fire Fighting Measures
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Flammable Properties:	Combustible liquid and vapors. Vapors are heavier than air and may travel long distances to an ignition source and flash back. Flammable vapors may accumulate in low-lying areas and confined spaces.
Suitable extinguishing Media:	Use foam, carbon dioxide, dry chemical extinguishing agents. Use caution when using water; fine water spray may be used to cool fire exposed containers.
Unsuitable extinguishing Media:	Do not use a direct water spray; it may spread the fire. Combustible liquid can travel on the surface of water.
Explosion Data:	
Sensitivity to Mechanical Impact:	May be sensitive.
Sensitivity to Static Discharge:	Sensitive. Liquid may accumulate a static charge.
Specific Hazards arising from the Chemical:	Combustion of the product is expected to produce carbon oxides, nitrogen oxides metal oxides and other irritating, potentially toxic fumes and smoke.
Protective Equipment and precautions for firefighters:	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
NFPA	
Health:	1
Flammability:	2
Instability:	0

Section 6: Accidental Release Measures

Personal Precautions:	Wear all skin, eye and respiratory personal protective equipment as indicated in Section 8. Eliminate all sources of heat and ignition. Ventilate the area.
Environmental Precautions:	Prevent material from contaminating soil and from entering sewers or waterways. Do not drain into sewers and drains.
Methods for Containment:	Isolate the spill area. Shut off the leak if it is safe to do so. Contain the liquid immediately using a suitable inert absorbent (sand, clay, vermiculite). Do not use combustible absorbents such as sawdust. Use vapor suppressing foam if needed to reduce vapors.
Methods for Clean-up:	Scoop up contaminated absorbents and place into suitable disposal containers. Collect all spilled material, contaminated absorbents and contaminated water for proper treatment or disposal. Use non-sparking tools to return materials to container. Contaminated absorbents pose the same hazards as the spilled product.

Section 7: Handling and Storage

Handling:	Do not handle this product near heat, sparks or ignition sources. Do not breathe fumes, vapor or spray. Use only with adequate ventilation. Never perform any welding, cutting, soldering, drilling or other hot work on an empty vessel, container or piping; it may cause an explosion. Do not use with incompatible materials such as strong oxidizing agents (e.g. peroxides, nitrates and perchlorates). These can increase the risk of fire and explosion. Avoid contact with eyes, skin and clothing. Wear protective goggles and gloves. Avoid breathing vapors or mists. Observe the recommended occupational exposure limits (Section 8). See Section 8 for Personal Protective Clothing and Equipment.
Storage:	Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Store in a cool, dry, well ventilated area away from direct sunlight, heat, sparks and open flame. Protect from freezing. Keep container closed when not in use.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits - Consult local authorities for acceptable exposure limits.

Ingredient	ACGIH TLV (8-hr. TWA)	U.S. OSHA PEL (8-hr. TWA)	Ontario (Canada) TWA EV
Oil modified Polyurethane Resin	Not established	Not established	Not established
Mineral spirits	100 ppm Stoddard solvents	500 ppm (2000 mg/m ³)	525 mg/m ³
Stoddard Solvent	100 ppm	500 ppm (2900 mg/m ³)	525 mg/m ³
Silica, amorphous fumed (total dust)	Not applicable	Not applicable	Not applicable
Methyl Ethyl Ketoxime	AIHA WEEL= 10 ppm	Not established	Not established

Exposure Controls

Engineering Controls:	Maintain adequate ventilation. In workplaces where a fine mist is created or in an enclosed space, provide local exhaust ventilation. If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire.
Personal Protection:	
Eye/Face Protection:	Wear chemical splash goggles.
Skin Protection:	Wear impermeable protective gloves and clean body-covering to prevent contact with the skin. Neoprene or nitrile protective gloves are recommended. Impermeable neoprene or nitrile apron and arm covers should be worn when needed to prevent skin contact.
Respiratory Protection:	Not required for normal use. Wear a NIOSH approved respiratory for organic vapors, mists and fumes during spill clean-up, in poorly ventilated areas or when occupational exposure limits are exceeded. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.
Other Protective Equipment:	In industrial settings, have an eyewash fountain and safety shower in the immediate work area.
General Hygiene Measures:	Remove contaminated clothing promptly. Launder contaminated clothing before re-wearing or discard. Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Flash Point & method:	40°C (104°F)
Appearance, Color and Odor:	Amber, mild odor	Autoignition Temperature:	246°C (475°F)
Odor Threshold:	Not available	Flammability Limits in Air:	LEL: 0.77% UEL: 6%
pH:	Not available	Vapor Pressure:	3 mmHg @ 20°C (68°F)
Relative density: (water = 1)	0.88 – 0.915	Vapor Density: (Air = 1)	>1 (heavier than air)
Partition coefficient: (n-octanol/water)	Not available	Evaporation Rate: (n-Butyl Acetate = 1)	Not available
Solubility:	Insoluble in water	Boiling Point/Range:	155 - 196°C (312 - 385°F)
Viscosity:	19 – 23 seconds Zahn #3 viscosimeter	Melting Point:	Not available
Decomposition Temperature:	Not available	VOC(g/L)	<450

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	Avoid heat and ignition sources.
Incompatible Materials	Strong oxidizing agents (e.g. chlorine, chromium trioxide, nitric acid, peroxides, permanganates) - may react violently or explosively. Increased risk of fire
Hazardous Decomposition Products	Thermal decomposition may generate irritating and toxic vapors of product, carbon oxides and nitrogen oxides
Possibility of Hazardous Reactions	Not available

Section 11: Toxicological Information

Acute Toxicity Data - Acute oral, dermal and inhalation toxicity data are not available for the mixture. Acute toxicity data for the primary components are listed below:

	LD₅₀ Oral (mg/kg)	LD₅₀ Dermal (mg/kg)	LC₅₀ Inhalation (mg/ m³ ; 4 hrs.)
Oil modified Polyurethane Resin	Not available	Not available	Not available
Mineral spirits	>5 000 (rat)	>3 000 (rabbit)	>5 500 (880 ppm) (rat)
Stoddard Solvent	>5 000 (rat)	>3 000 (rabbit)	>5 500 (880 ppm) (rat)
Silica, amorphous fumed	3160 (rat)	>5 000 (rabbit)	139 (rat)
Methyl Ethyl Ketoxime	930 mg/L (rat)	0.2 mg/kg (rabbit)	20 000 (rat)

Section 11: Toxicological Information - Continued
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Chronic Toxicity Data

Irritation:	Irritating to the eyes, respiratory system and skin.
Corrosivity:	Not available.
Sensitization:	Not available.
Neurological Effects:	Long-term, high level exposure to organic solvents has been associated with a condition called "organic solvent syndrome". Symptoms such as excessive fatigue, reduced memory, pain and numbness in the legs, arms, hands and feet and behavioral changes have been observed in some people with long-term, high-level occupational exposure to organic solvents.
Genetic Effects:	Not available
Reproductive Effects:	Not available
Developmental Effects:	Evidence from laboratory animals exposed to high doses of Xylene, five times greater than the occupational exposure limit, indicates that over-exposure may cause harm to the unborn child.
Carcinogenicity:	This preparation does not contain any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).
Target Organ Effects:	May cause central nervous system, liver or kidney injury.

Section 12: Ecological Information

Ecotoxicity:	May be harmful to fish, livestock and wildlife. Prevent release of this product into waterways and other natural environments.
Persistence/Degradability:	Not readily biodegradable. May cause long-term adverse effects in the aquatic environment.
Bioaccumulation/Accumulation:	Not available
Mobility:	Not available

Section 13: Disposal Considerations
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Waste Disposal Method:	Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.
US EPA Waste Number:	Dispose of in accordance with local, state and federal laws and regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Canada:	Dispose of in accordance with local, provincial and federal laws and regulations.

Section 14: Transport Information

U.S. Hazardous Materials Regulation (DOT 49CFR):	As packaged this material can be shipped as a "Consumer Commodity ORM-D" Exemption. Shipment from US going to Canada may transport as per 49 CFR (TDG Section 9.1)
Canadian Transportation of Dangerous Goods (TDG):	As packaged this material can be shipped as a "Consumer Commodity" as per part 1.17 of the TDG Regulations. Shipment from Canada to the US may transport as per TDG Regulations (49 CFR Part 171.12a)
IMDG:	UN1263 , PAINT, 3, PGIII, FP 40°C, LTD QTY, EmS F-E, S-E
Marine Pollutants:	Not applicable
ICAO/IATA:	Consumer Commodity, 9, ID8000 May be carried under the provisions for dangerous goods in limited quantities.

Section 15: Regulatory Information

USA	
TSCA Status:	All ingredients in the product are listed on the TSCA inventory.
SARA Title III Sec. 302/304: Sec. 311/312: Sec. 313: CERCLA RQ:	None Immediate and long-term health effects; Flammable
California Prop 65:	At the date of last revision, this product is not known to contain any chemicals known to State of California to cause cancer or birth defects or other reproductive harm.

Canada	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the SDS contains all the information required by the <i>Controlled Products Regulations</i> .
WHMIS Classification: (for workplace exposures)	B3 – Combustible liquid D2A – Other toxic effects – eye, respiratory and skin irritation.
New Substances Notification Regulations:	Calcium carboxylate (concentration <0.1%) is listed on the NDSL. All other substances in this product are listed on the DSL.
NPRI Substances:	Mineral Spirits, Stoddard Solvents, are NPRI reportable substances.

Section 16: Other Information**Preparation Information:**

Revision Date:	February , 2011
Prepared by:	Absolute Coatings, Inc.
Disclaimer:	While Absolute Coatings, Inc believes that the data set forth herein is accurate, as of the date hereof, Absolute Coatings makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.
Manufacturer Disclaimer:	The information and recommendations set forth are made in good faith and believed to be accurate at the date of preparation.