



Safety Data Sheet CONKLIN COMPANY, INC.

Date Prepared: 1/2/2023

SDS Number: 4096W

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Affinity® - White Polyurethane Coating	General Use Urethane roof coating
Manufacturer's Name Conklin Company	Emergency Telephone Numbers Health: (888) 786-0974 Transport: (800) 424-9300
Address (Number, Street, City, State and Zip) 551 Valley Park Drive Shakopee, MN 55379	Phone Number for Additional Information (952) 445-6010 Website: www.conklin.com

SECTION 2 - HAZARDS IDENTIFICATION



Signal Word:	Danger
Hazard statements:	<p>For Commercial Use Only.</p> <p>Toxic if swallowed or inhaled.</p> <p>Isocyanates may cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>Flammable liquid and vapor.</p> <p>Solvents may be absorbed through skin.</p> <p>Causes skin irritation and serious eye damage.</p> <p>May cause an allergic skin reaction.</p> <p>May cause cancer, see Proposition 65 statement.</p>

Precautions: Keep away from heat, sparks, pilot lights, open flames, static electricity, or other sources of heat or ignition. - No smoking. Use explosion-proof equipment when handling. Use only non-sparking tools. Take precautionary measures against static discharge. Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use.

Use NIOSH-approved APF 1000 self-contained or supplied-air full-face respirator, with dust/mist pre-filter, when airborne levels are above exposure limits, or when spraying or heating material. Avoid breathing mist, vapors and spray. Use only outdoors or in a well ventilated area. Do not eat, drink or smoke when using this product. Wear impervious gloves, safety glasses or goggles, and long-sleeved clothing when handling. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice or attention.

If swallowed: Immediately call a physician or Poison Control Center. Rinse Mouth.

If on skin or hair: Immediately take off all contaminated clothing. Rinse skin with soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or Poison Control Center.

In case of fire: Use foam, dry chemical or CO2 to extinguish.

Potential Health Effects, Based on Individual Components (May Vary Among Individuals)

Eye: Causes severe irritation, corneal vacuolization, conjunctivitis, redness, tearing, and blurred vision.

Skin: Can cause irritation, possible burns, defatting, and dermatitis. Can result in sensitization.

Ingestion: May cause nausea, vomiting, abdominal pain, and GI tract irritation.

Inhalation: High concentrations can produce narcosis or central nervous system depression, leading to unconsciousness or death. May cause sensitization or allergic reactions, including asthma-like symptoms. Death from severe asthma in sensitized workers has been reported. May cause nose and throat irritation, choking, coughing, chest pain, wheezing, dizziness, excitement, drowsiness, incoordination, staggering gait, anorexia. Long term exposure to low vapor concentrations may cause chronically progressive pulmonary disease.

Causes damage to Auditory System, Central Nervous System, Eyes, Kidneys, Liver, Reproductive System, Respiratory System, and Skin through prolonged or repeated exposure.

Medical conditions aggravated by exposure:

None known

Chronic effect Carcinogenicity: Contains Ethylbenzene (IARC-2B).
IARC-2B = The chemical is possibly carcinogenic to humans.
See Section 15 for California Proposition 65 information.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percent by Weight
Aliphatic Polyurethane Prepolymer	Proprietary	30% to 40%
Aluminum Hydroxide	21645-51-2	10% to 20%
Ammonium polyphosphate	68333-79-9	10% to 20%
Xylene	1330-20-7	10% to 20%
Titanium Dioxide	13463-67-7	10% to 20%
Tert-Butyl acetate	540-88-5	5% to 10%
Ethylbenzene	100-41-4	1% to 5%
Methyl Amyl Ketone	110-43-0	1% to 5%
4-toluenesulphonyl isocyanate	4083-64-1	1% to 5%
Hectorite Clay	12173-47-6	1% to 5%

See Section 8 for exposure guidelines.

SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if applicable. Hold eyelids back for thorough rinsing. Get immediate medical attention.

SKIN: Wash thoroughly with large amounts of soap and water and rinse for at least 15 minutes. Remove excess with rubbing alcohol. Remove contaminated clothing and launder before reuse. If irritation continues, seek medical attention. Discard contaminated leather clothing or goods. Consult a physician if irritation develops.

INGESTION: DO NOT INDUCE VOMITING. May be aspirated into lungs. If vomiting occurs, keep head below hips to prevent aspiration into lungs. If subject is drowsy or unconscious, place on left side with head down. Drink 2-3 glasses of water or milk, if subject is conscious and can swallow. If possible, do not leave subject unattended. Immediately contact poison center or physician and get immediate medical attention.

INHALATION: This product is flammable. Take proper precautions (e.g. remove any sources of ignition). Immediately move subject to fresh air. Give rescue breathing or CPR, if needed. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 67°F (TCC)

EXINGUISHING MEDIA: CO₂, foam, water fog, and dry chemical. Material will react with water,

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate downwind personnel. Wear self-contained breathing apparatus and protective clothing. Containers may be cooled with water spray. Contamination of product with water will generate carbon dioxide gas with possible build-up of pressure in containers or confined spaces. Do not spray pool fires directly; a solid stream of water directed into hot burning liquid can cause frothing. Boilover may occur when temperature of material approaches boiling point of solvent.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURE: Flammable liquid. Evacuate and ventilate area. Remove all ignition sources, including sparks and static electricity. Wear full personal protective equipment including respirator. Dike and collect with absorbent material or mechanical device, using non-sparking tools and equipment, and place in metal container with tight fitting cover. Do not vacuum. Floor may be slippery – clean thoroughly. Keep out of sewer, septic system, ground water, and open waters. Cover spills with sawdust or other absorbent material. Treat spilled material with an equal amount of 6% ammonia in water solution, and allow to react for 10 minutes. Cover loosely to vent carbon dioxide gas generated.

SECTION 7 - HANDLING AND STORAGE

STORAGE TEMPERATURE: Store in a cool, dry place between 50°F and 90°F.

HANDLING AND STORAGE PRECAUTIONS: Flammable liquid. Static electricity may cause fire or explosion. Store in closed containers away from children and away from heat, sparks, flames, moisture, and with adequate explosion proofing ventilation. Do not cut, weld, drill, or otherwise expose containers, whether empty or full, to heat, sparks, pilot lights, open flames, static electricity, or other sources of ignition. Use non-sparking tools and ground container and equipment. Water or moisture may cause pressure build-up and rupture of closed containers. Do not breathe vapors. Keep hands away from eyes. Wash thoroughly after handling, especially before eating or smoking. Reacts with water to release CO₂, which could build up pressure in closed containers and lead to bursting (do NOT reseal if moisture contamination is suspected). Vapors are heavier than air and may cause ignition away from storage or handling location. Open containers should be blanketed with dry nitrogen before resealing if there is no moisture contamination. Keep from freezing.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

ENGINEERING CONTROLS: Provide enough explosion-proof ventilation to keep airborne isocyanate below exposure limits. Local exhaust is needed for confined spaces or areas. Eye wash and safety shower should be available.

EYE PROTECTION REQUIREMENTS: Chemical splash goggles and face shield.

SKIN PROTECTION REQUIREMENTS: Impervious gloves and chemical-resistant clothing to prevent skin contact. Nitrile gloves are recommended.

RESPIRATORY PROTECTION: Use NIOSH-approved APF 1000 self-contained or supplied-air full-face respirator, with dust/mist pre-filter, when airborne levels are above exposure limits, or when spraying or heating material.

AIRBORNE EXPOSURE LIMITS

Components	OSHA PEL/TWA	ACGIH TLV/TWA	STEL
Xylene	TWA 100 ppm (435 mg/m ³)		150 ppm
Titanium Dioxide* *as dust	TWA 15 mg/m ³	10 mg/m ³	
Tert-Butyl acetate	TWA 200 ppm		
Ethylbenzene	TWA 100 ppm (435 mg/m ³)	TWA 20 ppm	125 ppm
Methyl Amyl Ketone	TWA 100 ppm (435 mg/m ³)		

Definitions:

PEL = Permissible Exposure Limit
TLV = Threshold Limit Value
TWA = Time-weighted average (8 hour day)
STEL = Short term exposure limit (15 minutes), no more than 60 min./day
(c) = Ceiling (not to be exceeded under any condition)
(s) = Skin

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid	Solubility in Water:	Insoluble
Color:	White	Specific Gravity (Water = 1):	1.20 - 1.23
Odor:	Solvent	Evaporation Rate (Butyl Acetate = 1):	not determined
Boiling Range:	210° - 290°F	Vapor Pressure (mm Hg):	See Section 16
pH:	Not determined	Vapor Density (Air = 1):	>1
VOC:	245 g/L		

SECTION 10 – REACTIVITY

Stability:	This material is stable under normal conditions.
Hazardous Polymerization:	Reacts slowly with water to produce CO ₂ (carbon dioxide) gas.
Incompatibilities (Materials to Avoid):	Water, alcohols, liquid chlorine, concentrated oxygen, sodium hydroxide and other alkaline materials, amines, and organometallic compounds. Moisture or water may cause rupture of container due to pressure build-up from carbon dioxide. Avoid heat, sparks, open flame.
Hazardous Decomposition Products:	Burning may produce Hydrogen cyanide, oxides of carbon and nitrogen, carbon monoxide, carbon dioxide, volatilized isocyanates.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 3 for potential health effects.

SECTION 12 – ECOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 6 for information regarding accidental releases. Keep out of trash, water, sewer, and drainage systems.

SECTION 13 - DISPOSAL CONSIDERATIONS

Use up material for its intended purpose, if possible. Dispose as hazardous waste according to federal, state and local regulations. Keep out of trash, water, sewer, and drainage systems.

SECTION 14 - TRANSPORTATION INFORMATION

UN1263, Paint, 3, II
Exception: Limited Quantity (not more than 1 liter)

Not packaged for Air or Vessel Transport

For additional information, please call the Transportation Department at (952) 445-6010

SECTION 15 - REGULATORY INFORMATION

California Proposition 65 statement:

WARNING: This product can expose you to chemicals including Cumene (< 584 ppm), Ethylbenzene (1% to 5%), which are known to the State of California to cause cancer; and Toluene (< 584 ppm), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product contains the following chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372): Ethylbenzene: 1% to 5%; Xylene: 10% to 20%.
CERCLA RQ = 1000 lbs (Ethylbenzene); CERCLA RQ = 5000 lbs (Tert-Butyl acetate); CERCLA RQ = 100 lbs (Xylene).

SECTION 16 - OTHER INFORMATION

This document replaces the 5/26/2021 version. All Safety Data Sheets reviewed for composition and regulatory status.

The information contained in this Safety Data Sheet is based on data available to us from suppliers, and is believed to be true and correct; however, Conklin makes no warranty, express or implied, regarding the accuracy of this data or results obtained from the use of this product. Conklin and its employees assume no responsibility for injury or damage from the use of this product.