



## Material Safety Data Sheet

Material: Waylock ® II Part B (hardener)  
Trade name: Waylock ® II Part B (hardener)  
Supplier: Trelleborg Sealing Solutions  
Address: 2531 Bremer Road  
Fort Wayne, IN 46803

Chemical family/description: Epoxy Curing Agent  
Date Effective: September 15, 2008

**In an emergency call CHEMTREC @ 800-424-9300**

Hazardous Ingredients(s)	%(by wt.)	OSHA TLV(ACGIH)	CAS NO.
Amidoamine Resin	<50.0%	None established	68443-08-3
Aminoethyl piperazine	<20.0%	None established	140-31-8
Pheno,4,4'-(1-methylethylidene)bis-Nonylphenol	<10.0%	None established	80-05-7
Benzyl alcohol	<5.0%	None established	100-51-6
Benzylidimethylamine	<5.0%	None established	103-83-3

Inhaled: May cause irritation to upper respiratory tract.

Contact with skin or eyes: DANGER! Causes severe irritation or burns. May cause permanent visual impairment.

Absorbed through skin: Based on product testing product is moderately irritating to the skin. Based on product testing product may cause skin sensitization.

Swallowed: May cause gastrointestinal irritation or ulceration. May cause burns to the mouth and throat.

Other Health Effects: Polyethylene amines are suspected mutagens.

Primary Route of Exposure: Skin.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Immediately remove contaminated clothing or shoes. Wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

Inhaled: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Swallowed: Do not induce vomiting. Give a large quantity of milk or water. Do not give fluids to an unconscious person. Get medical advice.

Flash Point, °F (method) >200 (PMCC)

Auto ignition temperature, °F - Not determined

Fire extinguishing materials:

water spray       carbon dioxide       other  
 foam               dry chemical       Water fog

Special firefighting procedures: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Cool fire exposed containers with water.

Unusual fire and explosion hazards – May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Hot vapor or mists may be susceptible to spontaneous combustion when mixed with air. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes. Therefore, ignition may occur below published ignition temperatures.

Large Spills - Wear respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Soak up residue with as absorbent such as clay, sand or other suitable inert material; dispose of properly.

Small Spills - Take up with an inert absorbent material and dispose of properly.

Preparing wastes for disposal: Solidify with clay or other inert absorbent in a steel drum. Consult your local authorities for an appropriate disposal facility.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

**Handling:** Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the defined occupational exposure limit is not exceeded. The efficiency of the ventilation must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. When the product is sprayed or heated, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.

**Storage Requirements:** Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from open flames and high temperatures.

**Storage Temperature:** Ideal storage temperature is 16-38°C (60-100°F).

**Ventilation and engineering controls:** Store material in a cool dry place with adequate ventilation.

**Respiratory protection:** Use under well ventilated conditions.

**Eye protection:** Wear safety glasses or goggles.

**Gloves:** Wear chemical-resistant gloves and other clothing as required to minimize skin contact

**Other clothing and equipment:** Avoid contact with the skin. Wear chemical-resistant gloves and other clothing as required to minimize skin contact.

**Work practices, hygienic practices:** Launder contaminated clothes before wearing. Do not smoke or eat where this material is being used. Wash hands before smoking, eating or going to the bathroom.

Vapor density (air=1)	Not determined
Melting point or range, °F	Not determined
Density	8.11 – 8.21
Boiling point or range, °F	Not determined
Solubility in water	Negligible
Evaporation rate	Nil
Vapor pressure (butyl acetate = 1) mmHg at 20°C	Not determined
Appearance and odor	Bluish-gray liquid; mild ammoniacal odor.

Stability:  Stable  Unstable

**Conditions to avoid:** Do not expose to excessive heat or ignition sources.

**Incompatibility (materials to avoid):** Strong oxidizing agents, reducing agents, organic acids, mineral acids,

reactive metals and materials reactive with hydroxyl compounds.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, ammonia and/or nitrates on nitrogen, nitric acid, aldehydes, and flammable carbon fragments..

Hazardous polymerization:  May occur  Will not occur

**Acute health Hazard:**

**Ingestion** : LD50 : > 500 mg/kg  
Species : Rat.  
Method : Estimated.

**Inhalation** : No data is available on the product itself.

**Inhalation - Components**

Benzyl alcohol	LC50 (4 h) : > 4.178 mg/l	Species : Rat.
Benzyl dimethylamine	LC50 (4 h) : 373 ppm	Species : Rat.

**Skin.** : No data is available on the product itself.

**Skin - Components**

Aminoethyl piperazine, 1-(2- (AEP)	LD50 : 880 mg/kg	Species : Rabbit.
Phenol, 4,4'-(1-methylethylene)bis-	LD50 : 3,600 mg/kg	Species : Rabbit.
Nonylphenol	LD50 : 2,033 mg/kg	Species : Rabbit.
Benzyl alcohol	LD50 : 2,000 mg/kg	Species : Rabbit.

**Eye irritation/corrosion** : Severe eye irritation.

**Acute dermal irritation/corrosion** : Severe skin irritation.

**Chronic Health Hazard:**

The product or a component may be mutagenic, the data is inconclusive. Rats exposed to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two year study with rats and mice. May impair fertility. Information given is based on the data of the components provided by the manufacturer MSDS.

**Ecotoxicity effects**

**Aquatic toxicity** : No data is available on the product itself.

<b>Toxicity to fish - Components</b>		
Nonylphenol	LC50 (96 h) : 0.128 mg/l	Species : Fathead minnow (Pimephales promelas).
Benzyl alcohol	LC50 (96 h) : 10 mg/l	Species : Bluegill sunfish (Lepomis macrochirus).
Benzyl alcohol	LC50 (96 h) : 460 mg/l	Species : Fathead minnow (Pimephales promelas).
<b>Toxicity to daphnia - Components</b>		
Nonylphenol	EC50 (48 h) : 0.0948 mg/l	Species : Daphnia
Nonylphenol	EC50 (48 h) : 0.19 mg/l	Species : Daphnia
<b>Toxicity to algae - Components</b>		
Benzyl alcohol	IC50 (72 h) : 700 mg/l	Species : Algae.

**Toxicity to other organisms** : No data available.

**Persistence and degradability**

**Mobility** : No data available.

**Bioaccumulation** : No data is available on the product itself.

<b>Bioaccumulation - Components</b>	
Nonylphenol	Moderate bioaccumulation potential.
Benzyl alcohol	Low bioaccumulation potential.

If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in appropriate disposal facility in compliance with local and federal regulations.

Proper Shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
UN: UN3267  
DOT Hazard Class: 8  
Packaging Group: III  
Package and transport in accordance with 49 CFR 173.154(b)

CFR:	Listed
IATA:	Listed
IMDG:	Listed
CTC:	Listed

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:  
Phenol, 4,4'-(1-methylethylidene)bis-

US, California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

HMIS Rating: Health: 3 Flammability: 1 Reactivity: 1

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency.

Date: 01-29-08  
Rev: 9-15-2008