



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Durathane II™ Single Component Silicone Elastomer
Product Class: Aromatic Polyurethane

Company: Specialty Products, Inc. (SPI)
2410 - 104th St Ct S, Ste D
Lakewood, WA 98499
Phone: 253.588.7101
Toll Free: 800.627.0773
Fax: 253.588.7196

EMERGENCY CONTACT: For Spills, Leaks, Fire or Exposure call **CHEMTREC**
Toll Free: 800.424.9300
International Calls: 703.527.3887
Fax: 913.321.1490

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name:</u>	<u>CAS#</u>	<u>%W</u>
Xylene	1330-20-7	9.5
Petroleum Naptha	64742-95-6	3.8
Naptha	64742-89-8	4.1
PGME acetate	108-65-6	4.2
Antimony trioxide		1.6
Toluene diisocyanate	26471-62-5	<.05
Chlorinated paraffin	63449-39-8	11.3

These chemicals are subject to SARA Title III, Section 313 reporting
California proposition 65 listed chemicals

SECTION 3: HAZARDS IDENTIFICATION

Physical State: Liquid

OSHA/HCS status: This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview: **WARNING**
Harmful by inhalation. Irritating to eyes and respiratory system. May cause sensitization by inhalation and skin contact. This product is a respiratory irritant and potential respiratory sensitizer. Repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons. The onset of the respiratory symptoms may be delayed for several hours after exposure.

Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

General Information: [Read the entire MSDS for a more thorough evaluation of the hazards.](#)



SECTION 4: FIRST AID MEASURES

Effects of Overexposure: Inhalation of high concentrations can produce central nervous system depression. Skin contact can cause irritation, possible burns, defatting and dermatitis. Eye contact causes severe irritation, redness, tearing and blurred vision.

Emergency 1st Aid: If overcome by vapors, remove to fresh air, give artificial respiration if necessary. Eye contact: flush with water for 15 minutes and see a physician. Skin contact: remove excess material before washing with rubbing alcohol, soap and water. Remove contaminated clothing. Ingestion: See a physician as soon as possible.

Primary Routes of Entry Dermal or inhalation most likely.

Medical Conditions Prone To Aggravation by Exposure: Repeated exposure can cause allergic reaction with development of occupational asthma. Long term exposure to low vapor concentrations may cause chronically progressive pulmonary disease. Repeated skin contact can result in sensitization

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 52 Degrees (TCC)

Products of Combustion: Combustion products may include: carbon oxides (CO, CO₂), nitrous oxides (NO, NO₂...), hydrocarbons and HCN.

Extinguishing Media

Suitable: Foam, CO₂, dry chemical or water fog.

Special Exposure Hazards: No specific hazard.

Special Protective Equipment for Fire-fighters: Fire-fighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn. 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.

Unusual Fire and Explosion Hazards: Spills or vapor leaks readily form.





SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	For major spills call CHEMTREC Toll Free 1.800.434.9300 or for International call 1.703.527.3887.
Personal Precautions:	Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (See SECTION 8-Exposure Controls for details).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for Cleaning Up:	Contain and absorb large spillages onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Test atmosphere for MDI. Neutralize small spillages with decontaminant. Remove and properly dispose of residues. (See SECTION 13 for disposal considerations.) Notify applicable government authorities if release is reportable. The CERCLA RQ for 4,4-MDI is 5,000 lbs (see CERCLA in SECTION 15-Regulatory Information).
Preparation of Decontamination Solution:	Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8 % concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's material safety data sheets when preparing and using solution.
Use of Decontamination Solution:	Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten the bungs. Mixing with wet earth is also effective, but slower.

SECTION 7: HANDLING AND STORAGE

General:	Ideal storage temperature is 60-100°F (16-38°C). Handling and storage should be in accordance with Local, State/Provincial or Federal regulations.
Handling:	<u>Before opening this package, read and follow warning labels on all components.</u> Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. (See SECTION 8—Exposure Control/Personal Protection for details.) Keep stocks of decontaminate readily available.
Storage:	Keep containers properly sealed and when stored indoors, in a dry and well-ventilated area. Keep contents away from moisture. Due to reaction with water, producing CO ₂ gas, a hazardous build-up of pressure could result if contaminated containers are resealed. DO NOT reseat contaminated containers. Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. DO NOT store in containers made of copper, copper alloys or galvanized surfaces.
Other Precautions:	Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Keep out of the reach of children.
Decontamination Solution:	Keep stocks of decontaminate readily available. (See SECTION 6—Accidental Release Measures for details).



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

- Preventive Measures:** Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace. Medical supervision of all employees who handle or come in contact with respiratory sensitizers is recommended. Persons with respiratory problems including asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or skin allergies should be evaluated for their suitability of working with this product. Once a person is diagnosed as sensitized, no further exposure to the material that caused the sensitization should be permitted.
- Engineering Controls:** Use local exhaust ventilation to maintain airborne concentrations below the TVL. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For general guidance on engineering control measures refer to the ACGIH current edition of 'Industrial Ventilation, a manual of Recommended Practice.' Eyewash fountain and safety shower should be accessible; impervious protective clothing.
- Eye Protection:** Chemical safety goggles. If there is a potential for splashing, use a full-faced shield.
- Hands Protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Skin Protection:** The following protective materials are recommended: Gloves—neoprene, nitrile rubber, and butyl rubber. Thin latex disposable gloves should be avoided for repeated or long-term use. Use barrier cream on exposed skin. Protective clothing should be selected and used in accordance 'Guidelines for the Selection of Chemical Protective clothing published by ACGIH.
- Respiratory Protection:** When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 C.F.R. 1910.134).
- Work Hygienic Practices:** Follow the usual precautionary measures for handling chemicals. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin and clothing. Wash hands after use. Wash all contaminated clothing and shoes before reuse.
- Other Protection:** Consult your supervisor or S.O.P. for special handling instructions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State: Liquid.
Color:
Odor: odorless
Odor Threshold: Not available.

Important Health, Safety and Environmental Information

pH: Not applicable.



Boiling Point: Approx. 246-355° F
Melting/Freezing Point: Not available
Flash Point: 52 degrees F
Explosive Properties: Not explosive.
Oxidizing Properties: Not available.
Vapor Pressure: (mm hg @ 20 C)
Vapor Density (AIR=1): Heavier
Specific Gravity: 10.1/gal

SECTION 10: STABILITY AND REACTIVITY

Stability & Reactivity: Stable

Incompatibility with Various Substances: Water, alcohols, liquid chlorine, concentrated oxygen, NaOH, amines, alkaline materials and organometallic compounds.

Hazardous Decomposition or by-Products: Burning may produce nitrogen oxides, hydrogen cyanide, carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Reacts slowly with water to product CO2 gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion: May contain trace amounts of Toluene diisocyanate monomer. The NTP reported that when toluene diisocyanate monomer was introduced into a rat's stomach, there was an increase in tumors over non-exposed rats.

Inhalation: Inhalation studies conducted by Hazelton labs did not show TDI to be carcinogenic to rats and mice.

Eyes: Irritating to eyes.

Skin: Irritating to skin. May cause sensitization by skin contact animal studies have shown that respiratory sensitization can be induced by skin contact with known respiratory sensitizers including diisocyanates. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.



SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

EMERGENCY CONTACT: For Spills, Leaks, Fire or Exposure call **CHEMTREC**
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U.S. DOT:

Proper Shipping Name: Paint
Hazard Class: 3
UN Number: UN1263
Packing Group: III

TDG Classification: Paint, 3, UN1263, PGIII
IMO/IMDG Classification: Paint, 3, UN1263, PGIII
ICAO/IATA Classification: Paint, 3, UN1263, PGIII

SECTION 15: REGULATORY INFORMATION

United States

This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

HCS Classification: Toxic material.
Irritant material.
Sensitizer material.

U.S. Federal Regulations: TSCA 8(b) inventory: All ingredients are on the TSCA inventory.

SARA 313

Ingredients subject to SARA Title 313,
Paint, 3, UN1263, PGIII

State Regulations

California Prop 65: listed chemicals.

Canada

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS (Material Safety Data Sheet) contains all the information required by the CPR.



WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic).
WHMIS Class D-2A: Material causing other toxic effects (very toxic).
WHMIS Class D-2B: Material causing other toxic effects (toxic).

CEPA DSL/NDSL: All ingredients listed.

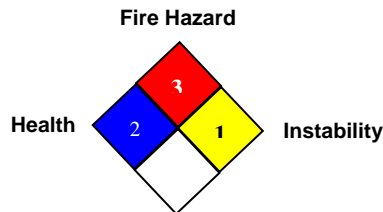
SECTION 16: OTHER INFORMATION

Label requirements: Harmful by inhalation. Irritating to eyes and respiratory system. May cause sensitization by inhalation and skin contact. This product is a respiratory irritant and potential respiratory sensitizer. Repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons. The onset of the respiratory symptoms may be delayed for several hours after exposure.

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

Health	2
Fire Hazard	3
Reactivity	1

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)



For Your Protection: The information and recommendations in this publication is to the best of our knowledge, reliable. The toxicity and risk characteristics of products made by SPI will necessarily differ from the toxicity and risk characteristics that occur when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. The user is responsible to comply with all applicable federal, provincial or municipal laws and regulations. SPI MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Preparation Information: This MSDS supersedes ALL previous MSDS versions.

