

Safety Data Sheet

Revision Date: 08-03-2015
Product Code: 7952

1. IDENTIFICATION

Product Name	CHEMICAL RESISTANT URETHANE CATALYST
Product Code	7952
Document ID	G7952
Revision Number	1
Prior Version Date	None
Intended Use	Urethane Paint Hardener/Catalyst
Restrictions On Use	For Industrial Use Only
Chemical Family	Urethane Co-Reactant
Chemical Manufacturer / Importer	NEOGARD® - a Division of JONES-BLAIR® Company, LLC 2728 Empire Central Dallas, TX 75235 1-214-353-1600
Emergency Telephone Number:	ChemTrec Center 1-800-424-9300 International: 703-527-3887

2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Hazard Pictograms



GHS Classification

Respiratory Sensitisation Category 1
Skin Sensitisation Category 1B
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Carcinogenicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Flammable Liquid Category 3
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Acute Toxicity - Inhalation Vapour Category 4

Signal Word

Danger

Hazard Statements

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

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Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fume, mist, vapours or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.

Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for extinction.

Storage

Store locked up. Store in a cool, well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards Not Otherwise Classified (HNOC)

Not applicable

Additional Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Component</u>	<u>CAS #</u>	<u>%</u>
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	15 - 40
Homopolymer of Isophorone Diisocyanate	53880-05-0	15 - 40
Parachlorobenzotrifluoride (PCBTF)	98-56-6	3 - 7
Light aromatic solvent naphtha	64742-95-6	3 - 7
n-Butyl acetate	123-86-4	3 - 7
1,2,4-Trimethylbenzene	95-63-6	1 - 5
1,3,5-trimethylbenzene	108-67-8	1 - 5
Cumene	98-82-8	0.1 - 1
ISOPHORONE DIISOCYANATE	4098-71-9	0.1 - 1
Hexamethylene diisocyanate	822-06-0	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. If breathing difficulty persists or occurs later, consult a physician and have MSDS available.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

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Skin Contact	Get medical attention immediately. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Thoroughly wash or discard clothing and shoes before reuse.
Ingestion	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
Most Important Acute Symptoms and Effects	Not Available
Most Important Delayed Symptoms and Effects	Not Available
Special treatment needed:	No additional first aid information available

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.
Unsuitable Extinguishing Media	No data available
Fire and/or Explosion Hazards	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire.
Hazardous Combustion Products	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates, Nitrogen containing gases, Isocyanic Acid
Special Protective Equipment and Precautions for Fire-Fighters	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Methods and Material for Containment and Cleaning Up	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can
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Conditions for Safe Storage

be dangerous. Use spark-proof tools and explosion-proof equipment. Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

Materials to Avoid/Chemical Incompatibility

Moisture, Amines, Alcohols, Caustics (bases, alkalis), Oxidizing agents, Acids, Water

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH STEL</u>
Homopolymer of Hexamethylene Diisocyanate		5mg/m ³ TWA	10mg/m ³ (15 Min.)
n-Butyl acetate	150 ppm TWA; 710 mg/m ³ TWA	150 ppm TWA; 713 mg/m ³ TWA	200 ppm STEL; 950 mg/m ³ STEL
1,2,4-Trimethylbenzene		25ppm; 123mg/m ³ TWA	
tert-butyl acetate	200ppm; 950mg/m ³ TWA	200ppm TWA	
Cumene	50 ppm TWA; 245 mg/m ³ TWA	50 ppm TWA; 246 mg/m ³ TWA	
Isophorone Diisocyanate		0.005 ppm (TWA)	
Hexamethylene diisocyanate		0.005 ppm TWA; 0.034 mg/m ³ TWA	

Appropriate Engineering Controls

Use local exhaust ventilation or other engineering controls to minimize exposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.

Respiratory Protection

General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use. For poorly ventilated areas or during spray application use NIOSH approved supplied air respirator unless air monitoring demonstrates vapor/mist levels below applicable limits. When monomeric isocyanate concentrations are below 0.05 ppm (10 times the 8 hour TWA exposure limit), an appropriate combination organic vapor and particulate respirator (NIOSH approved) may be appropriate. An end-of-service-life Indicator (ESLI) or a change schedule is mandatory.

Eye Protection

Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

Skin Protection

Avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact.

General Hygiene Conditions

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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Physical State	Liquid
Color	Colorless
Odor	Naphthalene-Like, Ester-Like
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point (°F/°C)	No data available / No data available
Initial Boiling Point and Boiling Range	
Low (°F)	257.0
High (°F)	280.4
Flash Point (°F/°C)	75 / 24
Evaporation Rate	0.90
Flammability (solid, gas)	No data available
Upper Flammable/Explosive Limit	10.5
Lower Flammable/Explosive Limit	0.9
Vapor Pressure	8.00 mbar
Vapor Density	6.20 (air = 1)
Relative Density	1.000
Solubility in Water	Reacts slowly with water.
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature:	No data available
Volatiles, % by volume	27.86
Volatiles, % by weight	24.40
Volatile Organic Chemicals (g/L)	
(Regulatory, Calculated)	187.99
(Actual, Calculated)	172.91
Density	9.03 - 9.23 lbs./Gal

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Sparks, open flame, other ignition sources, and elevated temperatures. Moisture (potentially will lead to gas formation and warming). Elevated temperatures. Contamination.
Incompatible Materials	Moisture, Amines, Alcohols, Caustics (bases, alkalis), Oxidizing agents, Acids, Water
Hazardous Decomposition Products	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates, Nitrogen containing gases, Isocyanic Acid

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Skin contact Inhalation Eye contact Ingestion Skin absorption
Immediate (Acute) Health Effects by Route of Exposure	
Inhalation Irritation	Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Causes nose and throat irritation. Irritating to the nose, throat, and respiratory tract. Sensitizer! Avoid exposure. If sensitized, exposure below the published exposure limits (e.g. TLV or PEL) can result in respiratory irritation, shortness of breath and difficulty breathing. These asthma-type symptoms may develop immediately or be delayed up to several hours.
Inhalation Toxicity	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.

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Skin Contact

Causes irritation with symptoms of reddening, itching and swelling. Sensitizer. Avoid exposure. If sensitized, repeated exposures will result in irritation, reddening, and rashes even for very low exposures. May cause allergic skin reaction.

**Skin Absorption
Eye Contact**

May be harmful if absorbed through skin. Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

**Ingestion Irritation
Ingestion Toxicity**

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort. Harmful or fatal if swallowed.

**Long-Term (Chronic) Health Effects
Inhalation**

Isocyanate vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to generally reversible bronchitis, bronchial spasm and pulmonary edema. Repeated overexposure causes sensitization in some individuals resulting in asthma-like symptoms on subsequent exposures below the TLV.

Persons with preexisting bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Skin Contact
Skin Absorption**

Prolonged contact may cause an allergic skin reaction. Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

Product Toxicology Data

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Homopolymer of Hexamethylene Diisocyanate	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 10.00 mg/L
Homopolymer of Isophorone Diisocyanate	Oral LD50 Rat > 14,000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Parachlorobenzotrifluoride (PCBTF)	Oral LD50 Rat 11,500 mg/kg		Inhalation LC50 Rat 20.00 g/m3
Light aromatic solvent naphtha	Oral LD50 Rat 8400 mg/kg	Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 (4h) Rat 5.60 mg/L
n-Butyl acetate	Oral LD50 Rat 10,760 mg/kg	Dermal LD50 Rat 12,789 mg/kg	Inhalation LC50 (4h) Rat > 21.00 mg/L
1,2,4-Trimethylbenzene	Oral LD50 Rat 6000 mg/kg	Dermal LD50 Rat > 3440 mg/kg	Inhalation LC50 (4h) Rat 10.20 mg/L
tert-butyl acetate	Oral LD50 Rat 4100 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (6h) Rat > 4,000.00 ppm
1,3,5-trimethylbenzene	Oral LD50 Rat 6000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 24.00 mg/L
Cumene	Oral LD50 Rat 1400 mg/kg	Dermal LD50 Rabbit > 3160 mg/kg	Inhalation LC50 (4h) Rat 8,000.00 ppm
Isophorone Diisocyanate	Oral LD50 Rat 5490 mg/kg	Dermal LD50 Rabbit 4780 mg/kg	Inhalation LC50 (4h) Rat 0.03 mg/L
Hexamethylene diisocyanate	Oral LD50 Rat 746 mg/kg	Dermal LD50 Rabbit >	Inhalation LC50 (4h) Rat

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		7000 mg/kg	0.12 mg/L
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Carcinogen Information

Chemical Name Cumene	IARC Carcinogen 2B	OSHA Carcinogen	NTP Carcinogen
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12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available)	No data available
Mobility in soil	No data available

13. DISPOSAL CONSIDERATIONS

Safe Handling of Waste Refer to other sections of this SDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint Related Material
Hazard Class: 3
UN Number: UN1263
Packing Group: III
Other: This product qualifies for a limited quantity exception per CFR173.150(b)(3) for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

Regulated Components

<u>SARA EHS Chemicals</u>	<u>CAS #</u>	<u>%</u>
Isophorone diisocyanate	4098-71-9	0.1 - 1

CERCLA

n-Butyl Acetate	123-86-4	3 - 7
tert-Butyl acetate	540-88-5	1 - 5
Cumene	98-82-8	0.1 - 1
Hexamethylene-1,6-diisocyanate	822-06-0	0.1 - 1

SARA 313

1,2,4-Trimethylbenzene	95-63-6	1 - 5
Cumene	98-82-8	0.1 - 1
Isophorone diisocyanate	4098-71-9	0.1 - 1
Hexamethylene-1,6-diisocyanate	822-06-0	0.1 - 1

SARA 311/312

Health (Acute): Y

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Health (chronic): Y
Fire (Flammable): Y
Pressure: N
Reactivity: Y

U. S. State Regulations:

California Prop 65 Chemicals

Cancer	CAS #	%
Cumene	98-82-8	0.1 - 1
Reproductive		
Not applicable		

Canadian Regulations:

CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List.

WHMIS Hazard Class: B2 D2A

16. OTHER INFORMATION

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Disclaimer This SDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.