
Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Sure-Seal Pourable Sealer - Part B

Chemical Family

Sealer

Product Use

Catalyst for Pourable Sealer – Part A

Restrictions on Use

For industrial use only.

Manufacturer Information

Carlisle SynTec
1285 Ritner Highway
Carlisle, PA 17013
USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1A

Skin Sensitization - Category 1A

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 2 (nervous system)

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (respiratory system)

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

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Causes skin irritation
Causes serious eye irritation
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause allergic skin reaction
Suspected of causing cancer
May cause damage to organs
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wear respiratory protection
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not eat, drink or smoke when using this product
Wear protective gloves

Response

IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER/doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
Call a POISON CENTER or doctor if you feel unwell
Specific treatment (see label)

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards

No additional information available.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
101-68-8	4,4'-Methylenediphenyl diisocyanate	15-40
26447-40-5	Diphenylmethane diisocyanate	30-60
78-40-0	Triethyl phosphate	0.5-1.5
61788-32-7	Hydrogenated terphenyls	30-60
26140-60-3	Terphenyls	1-5

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Skin

Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Immediately call a POISON CENTER or doctor/physician.

Eyes

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Do NOT induce vomiting. If swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation. Causes damage to central nervous system.

Delayed

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: respiratory system.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

Unsuitable Extinguishing Media

high-pressure water streams.

Special Hazards Arising from the Chemical

May react on contact with water. May decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Isocyanate vapor, oxides of carbon, oxides of nitrogen, hydrogen cyanide

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Evacuate area. Do not reseal contaminated containers.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Keep unauthorized personnel away. Ventilate affected area. Vapor-suppressing foam may be used to control vapors. Collect with absorbent into suitable container. Transfer to open top containers in a well-ventilated place and neutralize with 10% mixture of ammonium hydroxide in water for 48 hours allowing carbon dioxide to escape.

Environmental Precautions

Avoid release to the environment. Prevent entry into waterways, sewers, basements, or confined areas.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Wear respiratory protection. Wash thoroughly after handling. Contaminated work clothing

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should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Do not store at temperatures below 40 °F, 5 °C. Avoid contact with incompatible materials.

Incompatible Materials

Alcohols, acids, bases, amines, metal compounds, surface active agent.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

4,4'-Methylenediphenyl diisocyanate	101-68-8
ACGIH:	0.005 ppm TWA
NIOSH:	0.005 ppm TWA; 0.05 mg/m ³ TWA 75 mg/m ³ IDLH
	0.02 ppm Ceiling 10 min; 0.2 mg/m ³ Ceiling 10 min
OSHA (US):	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling
Diphenylmethane diisocyanate	26447-40-5
OSHA (US):	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling
Mexico:	0.02 ppm TWA LMPE-PPT; 0.2 mg/m ³ TWA LMPE-PPT; 0.005 ppm TWA LMPE-PPT as Methylene bisphenyl isocyanate; 0.051 mg/m ³ TWA LMPE-PPT as Methylene bisphenyl isocyanate
Hydrogenated terphenyls	61788-32-7
ACGIH:	0.5 ppm TWA (non-irradiated)
NIOSH:	0.5 ppm TWA; 5 mg/m ³ TWA
Mexico:	0.5 ppm TWA LMPE-PPT; 5 mg/m ³ TWA LMPE-PPT
Terphenyls	26140-60-3
ACGIH:	5 mg/m ³ Ceiling

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NIOSH:	500 mg/m ³ IDLH
OSHA (US):	1 ppm Ceiling; 9 mg/m ³ Ceiling
Mexico:	0.5 ppm Ceiling

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate work clothing. Wear rubber boots. Recommended material: protective skin cream.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations

Wear impermeable gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	yellow oily liquid	Physical State	liquid
Odor	mild	Color	yellow
Odor Threshold	Not available	pH	Not available
Melting Point	>0 °C	Boiling Point	314 - 342 °C (597-648 °F)
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	374 °C (705 °F)	Flash Point	>177 °C (351 °F)
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	0.001 mmHg (@ 40 °C)
Vapor Density (air=1)	>1	Specific Gravity (water=1)	Not available

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Water Solubility	reacts with water	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	1.09 - 1.14 (relative)	VOC	<10 g/L

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

May react on contact with water.

Chemical Stability

Stable under normal conditions of use. May react on contact with water.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid contact with water. Prolonged heating above 160°C or storage below 5°C. Avoid contact with incompatible materials.

Incompatible Materials

Alcohols, acids, bases, amines, metal compounds, surface active agent

Hazardous decomposition products

Isocyanate vapor, oxides of carbon, oxides of nitrogen, hydrogen cyanide

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact

Causes skin irritation. May cause allergic skin reaction.

Eye Contact

Causes serious eye irritation.

Ingestion

May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

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The components of this material have been reviewed in various sources and the following selected endpoints are published:

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Oral LD50 Rat 31600 mg/kg

Inhalation LC50 Rat 369 mg/m³ 4 h

Diphenylmethane diisocyanate (26447-40-5)

Oral LD50 Rat >7400 mg/kg

Dermal LD50 Rabbit >6200 mg/kg

Inhalation LC50 Rat 0.369 mg/L 4 h

Triethyl phosphate (78-40-0)

Oral LD50 Rat 1100 - 1600 mg/kg

Hydrogenated terphenyls (61788-32-7)

Oral LD50 Rat >10000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat >4.7 mg/L 4 hr

Terphenyls (26140-60-3)

Oral LD50 Mouse >2000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat >3.8 mg/L

Immediate Effects

Potentially fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation. Causes damage to central nervous system.

Delayed Effects

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: respiratory system.

Irritation/Corrosivity Data

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause allergic skin reaction.

Component Carcinogenicity

4,4'-Methylenediphenyl diisocyanate	101-68-8
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)

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Diphenylmethane diisocyanate	26447-40-5
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, respiratory tract irritation

Specific Target Organ Toxicity - Repeated Exposure

Respiratory system

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

May cause allergic skin reaction. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

Hydrogenated terphenyls	61788-32-7
Fish:	LC50 96 h Pimephales promelas >0.53 mg/L [static]; LC50 96 h Lepomis macrochirus >0.53 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.53 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >0.53 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 0.011 mg/L IUCLID
Terphenyls	26140-60-3

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Fish:	LC50 96 h Oncorhynchus mykiss >0.11 mg/L [static]; LC50 96 h Lepomis macrochirus >0.11 mg/L [static]; LC50 96 h Pimephales promelas >0.11 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 0.02 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.11 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated

IATA Information:

UN#: Not regulated

TDG Information:

UN#: Not regulated

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

4,4'-Methylenediphenyl diisocyanate	101-68-8
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SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
4,4'-Methylenediphenyl diisocyanate	101-68-8	Yes	Yes	Yes	No	Yes
Diphenylmethane diisocyanate	26447-40-5	No	Yes	No	Yes	No
Hydrogenated terphenyls	61788-32-7	Yes	Yes	Yes	Yes	Yes
Terphenyls	26140-60-3	Yes	Yes	Yes	Yes	Yes

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

4,4'-Methylenediphenyl diisocyanate	101-68-8
	0.1 %

Component Analysis - Inventory

4,4'-Methylenediphenyl diisocyanate (101-68-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Diphenylmethane diisocyanate (26447-40-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Benzene, 1,1'-methylenebis[isocyanato-, homopolymer (39310-05-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

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Triethyl phosphate (78-40-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Hydrogenated terphenyls (61788-32-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Quaterphenyls, partially hydrogenated (68956-74-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	No	No	Yes	Yes	No

Terphenyls (26140-60-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2* Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: April 17, 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -



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Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.