
Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

LiquiSeal Metal Primer

Synonyms

Interior and Exterior Waterproofing

Chemical Family

Isocyanate

Product Use

Interior and exterior waterproofing.

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.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT ST 3 H335 May cause respiratory irritation.
Eye Irrit. 2B H320 Causes eye irritation.

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Additional information:

At temperatures up to 77°F (25°C), this product does not emit sufficient vapors to pose a respiratory hazard when used as directed. Above this temperature, concentrations may become hazardous in enclosed spaces. Ventilation using open windows, fans, or other means of creating airflow are typically sufficient engineering controls to maintain adequate ventilation at working temperatures.

Label Elements

GHS Label Elements

This product is classified and labeled according to the Globally Harmonized System (GHS).

Signal Word

Danger

Hazard-determining Components of Labeling

diphenylmethanediisocyanate, isomers and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

Hazard Statement(s)

Harmful if inhaled.

Causes skin and eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary Statement(s)

In case of inadequate ventilation wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Take off contaminated clothing and wash it before reuse.

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

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

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WHMIS-symbols:

D2A – Very toxic material causing other toxic effects



NFPA ratings (scale 0 - 4):



Health = 2

Fire = 1

Reactivity = 1

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components		
9016-87-9	diphenylmethanediisocyanate, isomers and homologues	30-60%
101-68-8	4,4'-methylenediphenyl diisocyanate	30-60%
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	10-13%

Additional Information: Exact concentrations are being withheld as trade secrets.

Section 4 - FIRST AID MEASURES

General information:

Symptoms of poisoning may even occur after several hours.

After Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor if you feel unwell or are experiencing respiratory symptoms.

After Skin Contact:

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After Eye Contact:

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.

After Swallowing:

If swallowed, do not induce vomiting. Get medical attention right away.

Most Important Symptoms and Effects, both Acute and Delayed:

No further relevant information available.

Indication of any Immediate Medical Attention and Special Treatment needed:

No further relevant information available.

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Agents:

Use fire fighting measures that suit the environment.

Special Hazards Arising from the Substance or Mixture:

No further relevant information available.

Protective Equipment:

Mouth respiratory protective device.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

See below:

Environmental Precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and Materials for Containment and Cleaning Up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

No special measures required.

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Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further Information about Storage Conditions:

Keep receptacle tightly sealed.

Special End Use(s):

No further relevant information available.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Component with limit values that require monitoring at the workplace:	
101-68-8 4,4'-methylenediphenyl diisocyanate	
EL	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S
EV	Long-term value: 0.005ppm Ceiling limit value: 0.02 ppm

Additional Information:

The lists that were valid during the creation were used as basis.

Personal Protective Equipment

General Protective and Hygienic Measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

Breathing Equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of Hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of Gloves:

- Butyl rubber, BR
- Fluorocarbon rubber (Viton)
- Nitrile rubber, NBR

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Natural rubber, NR

Eye Protection



Tightly sealed goggles.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	Fluid	Color	According to product specification.
Odor	Characteristic	Odour threshold	Not determined
pH-value	Not determined	Change in condition Melting point/Melting range Boiling point/Boiling range	Undetermined > 350°C
Flash Point	> 200°C	Flammability (solid,gaseous)	Not applicable
Ignition temperature	400°C	Decomposition temperature	Not determined
Auto igniting	Product is not selfigniting	Danger of explosion	Product does not present an explosion hazard
Explosion limits Lower: Upper:	0.4 Vol % Not determined.	Vapor pressure	Not determined
Density at 20°C Relative density Vapour density Evaporation rate	1.24 g/cm ³ Not determined Not determined Not determined	Solubility in / Miscibility with Water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water)	Not determined		
Solvent content Organic solvents Other information	0.0% No further relevant information available.		

Section 10 - STABILITY AND REACTIVITY

Thermal Decomposition/Conditions to be Avoided:

No decomposition if used according to specifications.

Possibility of Hazardous Reactions

No dangerous reactions known.

Conditions to Avoid

No further relevant information available.

Incompatible Materials

No further relevant information available.

Hazardous decomposition products

No dangerous decomposition products known.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:**Acute Toxicity****LD/LC50 values that are relevant for classification:****101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral	LD50	2200 mg/kg (mouse)
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Specific Symptoms in Biological Assay:

No further relevant information available.

Primary Irritant Effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitizing possible through inhalation.

Sensitization possible through skin contact.

Additional Toxicological Information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

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Carcinogenic Categories

IARC (International Agency for Research on Cancer)		
9016-87-9	diphenylmethanediisocyanate, isomers and homologues	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3
NTP (National Toxicology Program)		
None of the ingredients is listed.		
OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

Section 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity:

No further relevant information available.

Persistence and Degradability:

No further relevant information available.

Bioaccumulative Potential:

No further relevant information available.

Mobility in Soil:

No further relevant information available.

Additional Ecological Information

General Notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other Adverse Effects:

No further relevant information available.

Section 13 - DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned Packagings:

Recommendations:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

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Section 14 - TRANSPORT INFORMATION

UN-Number	
DOT, TDG, ADN, IMDG, IATA	Not Regulated
UN proper shipping name	
DOT, TDG, ADN, IMDG, IATA	Not Regulated
Transport hazard class(es)	
DOT, TDG, ADN, IMDG, IATA	
Class	Not Regulated
Packing group	
DOT, TDG, IMDG, IATA	Not Regulated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user:	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
US "Model Regulation":	-

Section 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

Section 355 (extremely hazardous substances)	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings)	
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues
101-68-8	4,4'-methylenediphenyl diisocyanate
TSCA (Toxic Substance Control Act):	
All ingredients are listed.	

Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

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Carcinogenic Categories

EPA (Environmental Protection Agency):		
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
TLV (Threshold Limit Value established by ACGIH):		
None of the ingredients is listed.		
NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

Canadian Substance Listings

Canadian Domestic Substances List (DSL)		
All ingredients are listed.		
Canadian Ingredient Disclosure List (Limit 0.1%):		
101-68-8	4,4'-methylenediphenyl diisocyanate	
Canadian Ingredient Disclosure List (Limit 1%)		
None of the ingredients is listed.		

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard Pictograms



Signal Word:

Danger

Hazard-determining Components of Labeling:

diphenylmethanediisocyanate, isomeres and homologues
 4,4'-methylenediphenyl diisocyanate
 o-(p-isocyanatobenzyl)phenyl isocyanate

Hazard Statements:

Harmful if inhaled.
 Causes skin and eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 May cause respiratory irritation.

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Precautionary Statements:

In case of inadequate ventilation wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Take off contaminated clothing and wash it before reuse.

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

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

Section 16 - OTHER INFORMATION

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Summary of Changes

Revision Date: October 03, 2018

Revision Note: General Update

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 - 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



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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:

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