

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : COLPHENE LIQUID MEMBRANE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Two component, elastomeric, solvent free, cold applied material used in conjunction with a variety of SOPREMA waterproofing membranes

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer:  
SOPREMA USA  
310 Quadral Dr.  
Wadsworth, OH 44281  
Tel: 1-800-356-3521

Distributors:  
SOPREMA Canada  
1675 Haggerty Street  
Drummondville (Quebec) J2C 5P7  
Tel: 1-819-478-8163

SOPREMA Canada  
44955 Yale Road West  
Chilliwack (BC) V2R 4H3  
CANADA  
Tel: 1-604-793-7100

SOPREMA USA  
12251 Seaway Road  
Gulfport (Mississippi) 39507  
UNITED STATES  
Tel: 1-228-701-1900

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-434-9300 (Acct.# CCN20515). CANUTEC 1-613-996-6666

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Skin Sens. 1	H317
STOT SE 3	H335
Skin Irrit. 2A	H319
Flam. Liquid 4	H227
Resp. Sens. 1	H334

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation

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Precautionary statements (GHS-US)	H319 - Causes serious eye irritation H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H227 - Combustible liquid : P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe vapors P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear nitrile gloves and safety glasses P284 - [In case of inadequate ventilation] wear respiratory protection P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention P312 - Call a poison center if you feel unwell P314 - Get medical advice/attention if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/... P362 - Take off contaminated clothing and wash before reuse P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of container in accordance with local, regional or national regulations
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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Isocyanates, Reaction product of polyol with Methylene diphenyl diisocyanate	(CAS No) 39420-98-9	40-60	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Resp. Sens. 1, H334
4,4'-methylene diphenyl diisocyanate	(CAS No) 101-68-8	15 - 40	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Resp. Sens. 1, H334
Diisodecyl phthalate	(CAS No) 68515-49-1	10-30	Skin Irrit. 2, H315
methylene diphenyl diisocyanate, isomer mixture	(CAS No) 26447-40-5	5 - 10	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Resp. Sens. 1, H334
Methylene diphenyl diisocyanate, homopolymer	(CAS No) 39310-05-9	1-5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Resp. Sens. 1, H334

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing vapors. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

4,4'-methylenediphenyl diisocyanate (101-68-8)		
USA ACGIH	ACGIH TWA (ppm)	0.01 ppm
USA ACGIH	ACGIH STEL (ppm)	0.005 ppm
USA ACGIH	Remark (ACGIH)	Resp sens
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear nitrile gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: light brown
Odor	: aromatic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≈ 93 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Specific Gravity	: ≈ 1.1
Solubility	: Insoluble in water. Water: Solubility in water of component(s) of the mixture : •: g/100ml •: 6.8 mg/l •:
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: ≈ 0 g/l
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

COLPHENE LIQUID MEMBRANE	
ATE US (dust, mist)	1.50000000 mg/l/4h

4,4'-methylenediphenyl diisocyanate (101-68-8)	
LD50 oral rat	> 7616 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 9400 mg/kg body weight (Rabbit; Read-across; Equivalent or similar to OECD 402)
ATE US (gases)	4500.00000000 ppmV/4h
ATE US (vapors)	11.00000000 mg/l/4h
ATE US (dust, mist)	1.50000000 mg/l/4h

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
LD50 oral rat	> 2000 mg/kg body weight (Rat; Other; Experimental value)
LD50 dermal rabbit	> 9400 mg/kg body weight (Rabbit; Read-across; Equivalent or similar to OECD 402)
ATE US (gases)	4500.00000000 ppmV/4h
ATE US (vapors)	11.00000000 mg/l/4h
ATE US (dust, mist)	1.50000000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.

4,4'-methylenediphenyl diisocyanate (101-68-8)	
IARC group	3 - Not classifiable

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.  
May cause damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified  
Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if inhaled.

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Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

4,4'-methylenediphenyl diisocyanate (101-68-8)	
LC50 fish 1	> 1000 mg/l (96 h; Danio rerio; Nominal concentration)
EC50 Daphnia 1	129.7 mg/l (24 h; Daphnia magna; Locomotor effect)
Threshold limit algae 1	> 1640 mg/l (72 h; Desmodesmus subspicatus; Growth rate)
Threshold limit algae 2	1000 mg/l (112 days; Aquatic plants)

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
LC50 fish 1	> 1000 mg/l (96 h; Brachydanio rerio; Lethal)
EC50 Daphnia 1	> 1000 mg/l (24 h; Daphnia magna)
Threshold limit algae 1	> 1640 mg/l (72 h; Scenedesmus subspicatus; Growth rate)

#### 12.2. Persistence and degradability

COLPHENE LIQUID MEMBRANE	
Persistence and degradability	Not established.

4,4'-methylenediphenyl diisocyanate (101-68-8)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Not established.

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Not established.

#### 12.3. Bioaccumulative potential

COLPHENE LIQUID MEMBRANE	
Bioaccumulative potential	Not established.

4,4'-methylenediphenyl diisocyanate (101-68-8)	
BCF fish 1	0 (8 weeks; Cyprinus carpio; Test duration: 8 weeks)
BCF fish 2	92 - 200 (4 weeks; Cyprinus carpio; GLP)
Log Pow	5.22 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
BCF fish 1	92 (28 days; Cyprinus carpio; GLP)
Log Pow	4.51 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of container in accordance with local, regional or national regulations.
Ecology - waste materials	: Avoid release to the environment.

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### SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

#### Additional information

Other information : No supplementary information available.

#### ADR

Transport document description :

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### COLPHENE LIQUID MEMBRANE

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

##### 4,4'-methylenediphenyl diisocyanate (101-68-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb
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#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

##### 15.2.2. National regulations

No additional information available

#### 15.3. US State regulations

##### 4,4'-methylenediphenyl diisocyanate (101-68-8)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Revision date : 05/15/2015  
Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation

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H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

### NFPA health hazard

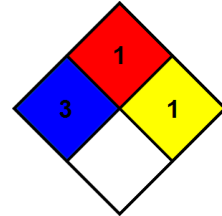
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

### NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

### NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



### HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 1 Slight Hazard

Physical : 1 Slight Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - Custom

*This SDS contains all the information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with DORS/88-66 of WHMIS (Canada).*

*The best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*