

# CP 620

## Safety information for 2-Component-products

Issue date: 03/11/2025

Revision date: 03/11/2025

Supersedes: 14/08/2025

Version: 8.0

## SECTION 1: Kit identification

### 1.1 Product identifier

Trade name

CP 620



Product code

BU Fire Protection

### 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti (Canada) Corp.  
2201 Bristol Circle  
Suite 700  
L6H 0J8 Oakville, Ontario - Canada  
T +1905 8139200  
1-800-363-4458 toll free - F +1 905 813 9009  
[ca-sales@hilti.com](mailto:ca-sales@hilti.com)

## SECTION 2: General information

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

## SECTION 3: Kit contents

### Classification of the Product

#### Classification (GHS CA)

Acute toxicity (inhalation), Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Respiratory sensitization, Category 1	H334
Skin sensitization, Category 1	H317
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity, Repeated exposure, Category 2	H373
Hazardous to the aquatic environment, Chronic Hazard, Category 3	H412

### Label elements

#### GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Danger

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## Safety information for 2-Component-products

### Hazardous ingredients

4,4'-diphenylmethanediisocyanate, isomeres and homologues; zinc borate

### Hazard statements (GHS CA)

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects

### Precautionary statements (GHS CA)

P260 - Do not breathe vapours.

P280 - Wear eye protection, protective clothing, protective gloves.

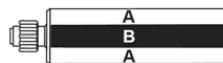
P284 - Wear respiratory protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.

### Additional information



Name	General description	Quantity	Unit	Classification (GHS CA)
CP 620, A (RoW)		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Repr. 2, H361
CP 620, B		1	pcs (pieces)	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

### SECTION 4: General advice

#### General advice

For professional users only

### SECTION 5: Safe handling advice

#### Environmental precautions

Avoid release to the environment

#### Storage conditions

Store in a well-ventilated place.

Keep cool.

#### Precautions for safe handling

Do not handle until all safety precautions have been read and understood.

Wear personal protective equipment

Do not breathe vapours.

Use only outdoors or in a well-ventilated area.

Avoid contact with skin and eyes

In case of inadequate ventilation wear respiratory protection.

#### Methods for cleaning up

Take up liquid spill into absorbent material

Notify authorities if product enters sewers or public waters

#### Incompatible materials

Sources of ignition

Direct sunlight

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## Safety information for 2-Component-products

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Incompatible products

Strong bases  
Strong acids

### SECTION 6: First aid measures

First-aid measures 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.

First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.  
Call a poison center or a doctor if you feel unwell

First-aid measures after skin contact

Wash with plenty of water/...  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing.

First-aid measures general

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/effects after eye contact

Eye irritation

Symptoms/effects after inhalation

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

Symptoms/effects after skin contact

Irritation  
May cause an allergic skin reaction.

Other medical advice or treatment

Treat symptomatically

### SECTION 7: Fire fighting measures

Firefighting instructions

Use water spray or fog for cooling exposed containers  
Exercise caution when fighting any chemical fire  
Prevent fire fighting water from entering the environment

Protection during firefighting

Self-contained breathing apparatus  
Complete protective clothing

Hazardous decomposition products in case of fire

Toxic fumes may be released  
Carbon dioxide  
Carbon monoxide

### SECTION 8: Other information

No data available



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H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child

P280 - Wear eye protection, protective clothing, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Ethylenediamine, propoxylated	-	CAS-No.: 25214-63-5	25 – 40	Eye Irrit. 2A, H319
Reaction products of phosphoryl trichloride and 2-methyloxirane	-	CAS-No.: 13674-84-5	2.5 – 5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Chronic 3, H412
hexaboron dizinc undecaoxide	Hexaboron dizinc undecaoxide boron zinc oxide (=dodecaboron tetra zinc docosaoxide) / hexaboron dizinc undecaoxide	CAS-No.: 12767-90-7	2.5 – 5	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol	2-[(2-[2-(dimethylamino)ethyl]oxy)ethyl]methylaminoethanol 2-[(2-[2-(dimethylamino)ethyl]oxy)ethyl]methylaminoethanol	CAS-No.: 83016-70-0	1 – 1.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).

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First-aid measures 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
First-aid measures general	IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	Irritation. Causes skin irritation.
Symptoms/effects after eye contact	Eye irritation. Causes serious eye irritation.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire	Toxic fumes may be released.
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### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 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

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.

For further information refer to section 13, See Section 8, Exposure controls and personal protection

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. 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 vapour.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

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

Storage conditions

Store locked up. Store in a well-ventilated place. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature

5 – 25 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Safety glasses. Protective clothing. Gloves. Avoid all unnecessary exposure.

##### Hand protection:

Protective gloves. Wear protective gloves.

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		

##### Eye protection:

Chemical goggles or safety glasses

Type	Field of application	Characteristics
Safety glasses	Droplet	

##### Skin and body protection:

Wear suitable protective clothing

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### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Wear appropriate mask

### Personal protective equipment symbol(s):



### 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	No data available
Colour	red
Odour	characteristic
Odour threshold	No data available
pH	Not determined
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable.
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable, Non flammable.
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	≈ 1.17 g/cm³
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Explosive limits	No data available

### 9.2. Other information

VOC content	15 mg/l EPA method 24 (CP 620, Comp. A + B)
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## SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions. Not established.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use. Not established.
Conditions to avoid	None under recommended storage and handling conditions (see section 7). Direct sunlight.
Incompatible materials	Extremely high or low temperatures.
Hazardous decomposition products	Strong acids. Strong bases. Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

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Hardening time: No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)

LD50 oral rat	1364 mg/kg bodyweight (Other, Rat, Male / female, Experimental value, Oral)
LD50 oral	1364 mg/kg
LD50 dermal rabbit	5700 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)

hexaboron dizinc undecaoxide (12767-90-7)

LD50 oral rat	> 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Skin, 14 day(s))
LC50 Inhalation - Rat	> 4.95 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value of similar product, Inhalation (dust), 14 day(s))

Skin corrosion/irritation	Causes skin irritation. pH: Not determined
Serious eye damage/irritation	Causes serious eye irritation. pH: Not determined
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact	Irritation. Causes skin irritation.
Symptoms/effects after eye contact	Eye irritation. Causes serious eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	Harmful to aquatic life with long lasting effects.
Ecology - water	Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

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Ethylenediamine, propoxylated (25214-63-5)	
LC50 - Fish [1]	4500 mg/l Leuciscus idus (golden orfe)
EC50 72h - Algae [1]	35 mg/l
NOEC chronic crustacea	> 1 mg/l

2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)	
LC50 - Fish [1]	> 320 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	72 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	> 110 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

hexaboron dizinc undecaoxide (12767-90-7)	
LC50 - Fish [1]	79.7 mg/l Freshwater fish
LC50 - Fish [2]	74 mg/l Marine water fish

### 12.2. Persistence and degradability

CP 620, A	
Persistence and degradability	May cause long-term adverse effects in the environment.
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)	
Persistence and degradability	Not readily biodegradable in water.
hexaboron dizinc undecaoxide (12767-90-7)	
Not rapidly degradable	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

CP 620, A	
Bioaccumulative potential	Not established.
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-0.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 26 °C)
hexaboron dizinc undecaoxide (12767-90-7)	
Bioaccumulative potential	No bioaccumulation data available.



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according to SOR/2015-17, Hazardous Products Regulations (HPR)

### 12.4. Mobility in soil

2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)	
Surface tension	61.3 mN/m (21 °C, 1 vol %, EU Method A.5: Surface tension)
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.07 (log Koc, OECD draft TGP94/75, Experimental value, GLP)
hexaboron dizinc undecaoxide (12767-90-7)	
Ecology - soil	Adsorbs into the soil.

### 12.5. Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecological waste information	Avoid release to the environment.

## SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

### 14.6. Special precautions for user

**TDG**  
Not regulated

**DOT**  
Not regulated



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### IMDG

Not regulated

### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

CP 620, A

Canada DSL & NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
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Ethylenediamine, propoxylated (25214-63-5)

**Listed on the Canadian DSL (Domestic Substances List)**

2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)

**Listed on the Canadian DSL (Domestic Substances List)**

Canada DSL & NDSL Flags

Substance was manufactured or imported after July 1, 1994

hexaboron dizinc undecaoxide (12767-90-7)

**Listed on the Canadian DSL (Domestic Substances List)**

Reaction products of phosphoryl trichloride and 2-methyloxirane (13674-84-5)

**Listed on the Canadian DSL (Domestic Substances List)**

## SECTION 16: Other information

SDS Major/Minor

None

Issue date

11-03-2025

Revision date

11-03-2025

Supersedes

06-27-2025

Indication of changes

Section	Changed item	Change	Comments
			SOR/2015-17, Hazardous Products Regulations (HPR)

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

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according to SOR/2015-17, Hazardous Products Regulations (HPR)

Full text of hazard classes and H-statements:	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Issue date: 11/03/2025 Revision date: 11/03/2025

Issue date: 11/03/2025

Revised Products Regulations  
Revision date: 11/03/2025

Supersedes: 06/27/2025

Version: 9.0

## SECTION 1: Identification

## 1.1. Product identifier

Product form Mixture  
Trade name CP 620, B  
Product code BU Fire Protection

## 1.2. Other means of identification

No additional information available

### 1.3. Recommended use of the chemical and restrictions on use

Recommended use Firestop foam

#### 1.4. Supplier's details

<b>Supplier</b>	<b>Department issuing data specification sheet</b>
<p>Hilti (Canada) Corp. 2201 Bristol Circle Suite 700 CA L6H 0J8 Oakville, Ontario Canada T +1905 8139200 1-800-363-4458 toll free, F +1 905 813 9009 <a href="mailto:ca-sales@hilti.com">ca-sales@hilti.com</a></p>	<p>Hilti AG Feldkircher Strasse 100 FL 9494 Schaan Liechtenstein T +423 234 2111 <a href="mailto:product.compliance-fire.protection@hilti.com">product.compliance-fire.protection@hilti.com</a></p>

## 1.5. Emergency telephone number

## SECTION 2: Hazard identification

## 2.1. Classification of the substance or mixture

<b>Classification (GHS CA)</b>		
Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled
Skin corrosion/irritation, Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation
Respiratory sensitization, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation
Respiratory tract irritation		
Specific target organ toxicity, Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

Full text of H-statements: see section 16

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according to SOR/2015-17, Hazardous Products Regulations (HPR)

### 2.2. GHS Label elements, including precautionary statements

#### GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Danger

Hazard statements (GHS CA)

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

P260 - Do not breathe vapours.

P280 - Wear eye protection, protective clothing, protective gloves.

P284 - Wear respiratory protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.

Precautionary statements (GHS CA)

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
4,4'-diphenylmethanediisocyanate, isomeres and homologues	-	CAS-No.: 9016-87-9	≥ 40	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	Diphenylmethane 4,4'-diisocyanate	CAS-No.: 101-68-8	25 – 60	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Reaction products of phosphoryl trichloride and 2-methyloxirane	-	CAS-No.: 13674-84-5	10 – 25	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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/doctor.

First-aid measures after skin contact

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:

First-aid measures 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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction.

Symptoms/effects after skin contact

Irritation. May cause an allergic skin reaction. Causes skin irritation.

Symptoms/effects after eye contact

Eye irritation. Causes serious eye irritation.

Potential adverse human health effects and symptoms

Harmful if inhaled.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide. Sand.

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Unsuitable extinguishing media      Do not use a heavy water stream.

### 5.2. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire      Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions      Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting      Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 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

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up      Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information      Dispose of materials or solid residues at an authorized site.

For further information refer to section 13, See Section 8, Exposure controls and personal protection

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling      Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. 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 vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

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

Storage conditions      Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from :  
Incompatible products      Strong bases. Strong acids.  
Incompatible materials      Sources of ignition. Direct sunlight.  
Storage temperature      5 – 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information      The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

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### 8.2. Appropriate engineering controls

Appropriate engineering controls      Ensure good ventilation of the work station.  
Environmental exposure controls      Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Protective clothing. Safety glasses. Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard:  
Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0,35	
Disposable gloves	Butyl rubber	6 (> 480 minutes)	≥ 0,35	

#### Eye protection:

Chemical goggles or safety glasses

Type	Field of application	Characteristics
Safety glasses	Droplet	

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387). [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



#### 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	No data available
Colour	amber
Odour	characteristic

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Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable, Non flammable.
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	≈ 1.032 g/cm³
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Explosive limits	No data available

### 9.2. Other information

VOC content	15 g/l EPA method 24 (CP 620, Comp. A + B)
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## SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions. Not established.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use. Not established.
Conditions to avoid	None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.
Hardening time:	No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Inhalation:dust,mist: Harmful if inhaled.

ATE CA (dust,mist)	1.5 mg/l/4h
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)
LD50 dermal	9400 mg/kg
LC50 Inhalation - Rat	0.49 mg/l
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
LD50 oral rat	> 2000 mg/kg

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

LD50 oral	31600 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 0.368 mg/l/4h

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
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'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

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

IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
STOT-single exposure	May cause respiratory irritation.

### 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-single exposure	May cause respiratory irritation.
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### 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

### 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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### 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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#### Aspiration hazard

Not classified

#### Potential adverse human health effects and symptoms

Harmful if inhaled.

#### Symptoms/effects after inhalation

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction.

#### Symptoms/effects after skin contact

Irritation. May cause an allergic skin reaction. Causes skin irritation.

#### Symptoms/effects after eye contact

Eye irritation. Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

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4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
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### 12.2. Persistence and degradability

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Persistence and degradability	Not established.
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4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

Not rapidly degradable

Persistence and degradability	Not readily biodegradable in water.
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
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BCF - Fish [1]	268.1 l/kg (BCFBASF v3.01, Estimated value, Fresh weight)
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Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
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### 12.4. Mobility in soil

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

Surface tension	No data available in the literature
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Ecology - soil	Adsorbs into the soil.
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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### 12.5. Other adverse effects

Ozone Not classified

Other information Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecological waste information Avoid release to the environment.

## SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA



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TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

### 14.6. Special precautions for user

#### TDG

Not regulated

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

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Canada DSL & NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)
<b>Listed on the Canadian DSL (Domestic Substances List)</b>

Reaction products of phosphoryl trichloride and 2-methyloxirane (13674-84-5)
<b>Listed on the Canadian DSL (Domestic Substances List)</b>



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4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on the Canadian DSL (Domestic Substances List)

### SECTION 16: Other information

SDS Major/Minor	None
Issue date	11-03-2025
Revision date	11-03-2025
Supersedes	06-27-2025

Indication of changes			
Section	Changed item	Change	Comments
			SOR/2015-17, Hazardous Products Regulations (HPR)

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information None.

Full text of hazard classes and H-statements:	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)

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Abbreviations and acronyms:	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class
VOC	Volatile Organic Compounds
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
COD	Chemical oxygen demand (COD)
ThOD	Theoretical oxygen demand (ThOD)
TRGS	Technical Rules for Hazardous Substances
TLM	Median Tolerance Limit
STP	Sewage treatment plant
ACGIH	American Conference of Government Industrial Hygienists



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### Abbreviations and acronyms:

CSA	Chemical safety assessment
EWC	European waste catalogue
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
OSHA	Occupational Safety Health Administration
PPE	Personal protection equipment
TF	Technical function
TWA	Time Weighted Average
UFI	Unique Formula Identifier

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.