

**Safety Data Sheet**  
 according to 1907/2006/EC (REACH),  
 1272/2008/EC (CLP), and GHS

Printing date: 26.06.2013

Revision: 26.06.2013

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

### 1.1 Product identifier

Trade Name: **POR-15 Rust Preventive Paint SILVER**

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

No further relevant information available.

**Application of the substance / the preparation:** Coating Compound/ Surface Coating/Paint

### 1.3 Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier:

Absolute Coatings Inc.  
 38 Portman Road  
 New Rochelle, NY 10801  
 Phone: 1-800-221-8010

### 1.4 Emergency telephone number:

ChemTel Inc.  
 (800)255-3924, +1 (813)248-0585

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

The following classifications are applicable only to the general GHS regulations and not the specific CLP regulation: H227.

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H227: Combustible Liquid. (General GHS and USA only)



GHS02 flame

Flam. Liq. 3; H226: Flammable liquid and vapour.



GHS07

Acute Tox. 4; H332: Harmful if inhaled.

Skin Irrit. 2; H315: Causes skin irritation.

Eye Irrit. 2; H319: Causes serious eye irritation.

Skin Sens. 1; H317: May cause an allergic skin reaction.

STOT SE 3; H335: May cause respiratory irritation.



GHS08 health hazard

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

Muta. 1B; H340: May cause genetic defects.

Carc. 1B; H350: May cause cancer.

STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure.

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

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

Xn; Sensitising


R42/43: May cause sensitisation by inhalation and skin contact.

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 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R10: Flammable.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS02 GHS07 GHS08

**Signal word:** Danger

**Hazard-determining components of labelling:**

Aromatic polyisocyanate, oligomers and polymers.

Solvent naphtha (petroleum), light arom.

4,4'-methylenediphenyl diisocyanate

MDI based prepolymer

**Hazard statements**

H226: Flammable liquid and vapour.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H340: May cause genetic defects.

H350: May cause cancer.

H335: May cause respiratory irritation.

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

**Precautionary statements**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P285: In case of inadequate ventilation wear respiratory protection.

P281: Use personal protective equipment as required.

P233: Keep container tightly closed.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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P370+P378: In case of fire: Use foam, powder, or carbon dioxide for extinction.

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

P403+P235: Store in a well-ventilated place. Keep cool.

**Additional information:**

Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

**Hazard description:****WHMIS-symbols:**

B3 - Combustible liquid

D2A - Very toxic material causing other toxic effects

**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	*1	
FIRE	2	
REACTIVITY	0	

Health = \*1

Fire = 2

Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

**HMIS Long Term Health Hazard Substances**

101-68-8	4,4'-methylenediphenyl diisocyanate
26447-40-5	Methylenediphenyl diisocyanate
9016-87-9	Polymethylene polyphenylene isocyanate

**2.3 Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3 Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

	Aromatic polyisocyanate, oligomers and polymers ☒ Xn R42/43; ☒ Xi R36/38 ⚠ Resp. Sens. 1, H334 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	30-60%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ⚠ Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304	10-30%
	MDI based prepolymer ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-30%

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CAS: 64742-88-7 EINECS: 265-191-7 Index number: 649-405-00-X	Solvent naphtha (petroleum), medium aliph. ☒ Xn R65 ☠ Asp. Tox. 1, H304	10-30%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate ☒ Xn R20; ☒ Xn R42/43; ☒ Xi R36/37/38; Carc. Cat. 3 ☠ Resp. Sens. 1, H334; STOT RE 2, H373 ☠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	7-13%
CAS: 7429-90-5	Aluminum metal ☒ F R15	3-7%
CAS: 26447-40-5 EINECS: 247-714-0 Index number: 615-005-00-9	Methylenediphenyl diisocyanate ☒ Xn R20; ☒ Xn R42/43; ☒ Xi R36/37/38; Carc. Cat. 3 ☠ Resp. Sens. 1, H334; STOT RE 2, H373 ☠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	1-5%

**Additional information:** For the wording of the listed risk phrases refer to section 16.**4 First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Immediately remove contact lenses if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks

Breathing difficulty

Allergic reactions

Nausea

Cramp

Coughing

Disorientation

Cyanosis

Methaemoglobinaemia

**Hazards:**

Danger of pulmonary oedema.

Danger of impaired breathing.

Danger of convulsion.

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Danger of disturbed cardiac rhythm.

Condition may deteriorate with alcohol consumption.

**4.3 Indication of any immediate medical attention and special treatment needed**

Contains isocyanates. Consult literature for specific antidotes.

If swallowed, gastric irrigation with added, activated carbon.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If necessary oxygen respiration treatment.

If swallowed or in case of vomiting, danger of entering the lungs.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Medical supervision for at least 48 hours.

Later observation for pneumonia and pulmonary oedema.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Alcohol resistant foam.

Foam.

Fire-extinguishing powder.

Carbon dioxide.

Gaseous extinguishing agents.

Water haze or fog.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet.

Water spray.

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

During heating or in case of fire poisonous gases are produced.

Hazardous combustions products: Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides,

Various complex oxides of metals, Nitrogen.

### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information:**

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog or haze.

Use large quantities of foam as it is partially destroyed by the product.

No further relevant information available.

## 6 Accidental release measures

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

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

### 6.2 Environmental precautions:

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

### 6.3 Methods and material 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.

Do not flush with water or aqueous cleansing agents

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Trade Name: **POR-15 Rust Preventive Paint SILVER****6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage****7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Avoid splashes or spray in enclosed areas.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.  
Emergency cooling must be available in case of nearby fire.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.  
Avoid storage near extreme heat, ignition sources or open flame.  
Protect from humidity and water.

**Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from oxidizing agents.  
Do not store together with acids.  
Protect from humidity and water.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
Keep container tightly sealed.  
Protect from humidity and water.  
Store receptacle in a well ventilated area.

**7.3 Specific end use(s):** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****101-68-8 4,4'-methylenediphenyl diisocyanate**

PEL (USA)	Short-term value: C 0.2 mg/m <sup>3</sup> , C 0.02 ppm
REL (USA)	Short-term value: C 0.2* mg/m <sup>3</sup> , C 0.02* ppm Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
EL (Canada)	Short-term value: C 0.01 ppm Long-term value: 0.005 ppm Skin; S
EV (Canada)	Long-term value: 0.005 ppm

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Trade Name: **POR-15 Rust Preventive Paint SILVER****7429-90-5 Aluminum metal**

PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1,0 mg/m <sup>3</sup> metal and insoluble compounds, respirable
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)

**DNELs:** No further relevant information available.**PNECs:** No further relevant information available.**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**Respiratory protection:**

Combined Organic Vapor and Particulate Respirator are recommended for use during all processing activities.

**Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Safety glasses

**Body protection:** Protective work clothing**Limitation and supervision of exposure into the environment**

No further relevant information available.

**Risk management measures**

See Section 7 for additional information.

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Trade Name: **POR-15 Rust Preventive Paint SILVER****9 Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Silver-coloured
<b>Odour:</b>	Product specific
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	Not determined.
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**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	>284 °F / >140 °C

<b>Flash point:</b>	>106 °F / >41 °C
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<b>Flammability (solid, gaseous):</b>	Not applicable.
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<b>Ignition temperature:</b>	444 °F / 229 °C
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<b>Decomposition temperature:</b>	Not determined.
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<b>Self-igniting:</b>	Product is not self-igniting.
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<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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**Explosion limits:**

<b>Lower:</b>	0.60 Vol %
<b>Upper:</b>	6.50 Vol %

<b>Vapour pressure:</b>	38 mm Hg
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<b>Density:</b>	1.04 ± 0.02 g/cm <sup>3</sup>
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<b>Relative density:</b>	Not determined.
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<b>Vapour density:</b>	Not determined.
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<b>Evaporation rate:</b>	Not determined.
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**Solubility in / Miscibility with**

<b>Water:</b>	Not miscible or difficult to mix.
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<b>Partition coefficient (n-octanol/water):</b>	Not determined.
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**Viscosity:**

<b>Dynamic at 25 °C:</b>	200-500 cps
<b>Kinematic:</b>	Not determined.

**Solvent content:**

<b>Organic solvents:</b>	27% Wt/33% Vol (270 g/L)
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<b>VOC (US EPA Method 24A):</b>	27% Wt/33% Vol (270 g/L)
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<b>Solids content:</b>	74% Wt/68% Vol
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<b>9.2 Other information:</b>	No further relevant information available.
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**10 Stability and reactivity****10.1 Reactivity****10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications

**10.3 Possibility of hazardous reactions**

Flammable.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.



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Danger of polymerization.  
 Reacts with amines.  
 Reacts with catalysts.  
 Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

**10.4 Conditions to avoid:**

Keep ignition sources away - Do not smoke.  
 Store away from oxidizing agents.

**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**

Hydrogen cyanide (prussic acid)  
 Nitrogen oxides  
 Isocyanate  
 Carbon monoxide and carbon dioxide  
 Danger of forming toxic pyrolysis products.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral	LD50	2200 mg/kg (mouse)
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**Primary irritant effect:****On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:**

Sensitization possible through inhalation.  
 Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Harmful

Irritant

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Danger through skin adsorption.

**Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

Muta. 1B, Carc. 1B

**12 Ecological information****12.1 Toxicity****Aquatic toxicity:** The product contains materials that are harmful to the environment.**12.2 Persistence and degradability:** The product is partially biodegradable. Significant residuals remain.**12.3 Bioaccumulative potential:** Does not accumulate in organisms.**12.4 Mobility in soil:** No further relevant information available.

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**Ecotoxicological effects:****Remark:**

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.  
 The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

**Additional ecological information:****General notes:**

This statement was deduced from the properties of the single components.  
 Avoid transfer into the environment.  
 Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.  
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**13 Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Solvent naphtha.**14 Transport information****14.1 UN-Number**

**DOT:** N/A  
**ADR, IMDG, IATA:** UN1263

**14.2 UN proper shipping name**

**DOT:** N/A  
**ADR:** 1263 Paint  
**IMDG, IATA:** Paint

**14.3 Transport hazard class(es)**

**DOT:**  
**Class:** N/A

**ADR:**

**Class:** 3 (F1) Flammable liquids.  
**Label:** 3

**IMDG, IATA:**

**Class:** 3 Flammable liquids.  
**Label:** 3

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DOT: N/A

ADR, IMDG, IATA: III

**14.5 Environmental hazards:**

Marine pollutant: No

14.6 Special precautions for user: Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

**14.7 Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code: Not applicable.

**Transport/Additional information:****ADR**

Limited quantities (LQ): 5L

Transport category: 3

Tunnel restriction code: D/E

UN "Model Regulation": UN1263, PAINT, 3, III

**15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
United States (USA)**SARA****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**

101-68-8 | 4,4'-methylenediphenyl diisocyanate

7429-90-5 | Aluminum metal

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65 (California):****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.

**Carcinogenic Categories****EPA (Environmental Protection Agency)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate | CBD

**IARC (International Agency for Research on Cancer)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate | 3

**TLV (Threshold Limit Value established by ACGIH)**

7429-90-5 | Aluminum metal | A4

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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**Canada****Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**Canadian Ingredient Disclosure list (limit 0.1%)**

101-68-8	4,4'-methylenediphenyl diisocyanate
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**Canadian Ingredient Disclosure list (limit 1%)**

7429-90-5	Aluminum metal
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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H304: May be fatal if swallowed and enters airways.  
 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.  
 H340: May cause genetic defects.  
 H350: May cause cancer.  
 H373: May cause damage to organs through prolonged or repeated exposure.

R15: Contact with water liberates extremely flammable gases.  
 R20: Harmful by inhalation.  
 R36/37/38: Irritating to eyes, respiratory system and skin.  
 R36/38: Irritating to eyes and skin.  
 R42/43: May cause sensitisation by inhalation and skin contact.  
 R43: May cause sensitisation by skin contact.  
 R65: Harmful: may cause lung damage if swallowed.

**Abbreviations and Acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent