

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 06.06.2014

Revision: 06.06.2014

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

- **1.1 Product identifier**
- **Trade name:** Touch N Foam Professional All-Purpose Foam Sealant
- **Article number:** EHS 9450
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Convenience Products, division of Clayton Corp.  
866 Horan Drive  
Fenton, MO 63026-2416  
Phone: 636-349-5855
- **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 Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H222-H229.  
The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H222.



H222: Extremely flammable aerosol.



flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.



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.

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

 Xn; Harmful


R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

 Xn; Sensitising

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

 Xi; Irritant

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

 F+; Extremely flammable

R12: Extremely 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.

Warning! Pressurized container.

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

- **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:**

polymethylene polyphenylene isocyanate

4,4'-methylenediphenyl diisocyanate

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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.

H335 May cause respiratory irritation.

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

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- **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P251 Pressurized container: Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P280 Wear protective clothing / eye protection.  
 P314 Get medical advice/attention if you feel unwell.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.  
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
 Buildup of explosive mixtures possible without sufficient ventilation.

- **Hazard description:**

- **WHMIS-symbols:**

- A - Compressed gas  
 B5 - Flammable aerosol  
 D2A - Very toxic material causing other toxic effects



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



- Health = 2  
 Fire = 4  
 Reactivity = 3

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



- Health = \*2  
 Fire = 4  
 Reactivity = 3

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

- **HMIS Long Term Health Hazard Substances**

9016-87-9	polymethylene polyphenylene isocyanate
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- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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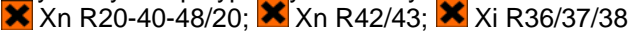
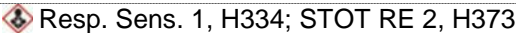

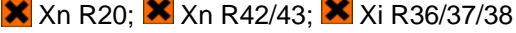
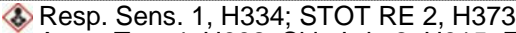

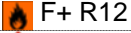

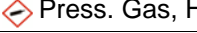
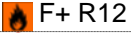

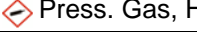
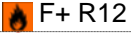

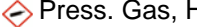
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### 3 Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 9016-87-9	polymethylene polyphenylene isocyanate  Carc. Cat. 3  	30-50%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate  Carc. Cat. 3  	5-10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether   	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane   	5-10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane   	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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

- **After inhalation:**

Supply fresh air.

Seek medical help for symptoms or if unconscious.

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

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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Do not pull solidified product off the skin.

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

Dizziness

Coughing

Allergic reactions

Irritant to skin and mucous membranes.

Irritant to eyes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Disorientation

· **Hazards**

Danger of impaired breathing.

Danger of pulmonary oedema.

Danger of disturbed cardiac rhythm.

Danger of convulsion.

Vapours may cause drowsiness and dizziness.

Harmful if inhaled.

Danger of serious damage to health by prolonged exposure.

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

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible.

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

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains polymethylene polyphenylene isocyanate, 4,4'-methylenediphenyl diisocyanate. May produce an allergic reaction.

### 5 Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** None.

· **5.2 Special hazards arising from the substance or mixture**

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

Danger of receptacles bursting because of high vapour pressure when heated.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

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Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· **Additional information**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

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

Eliminate all ignition sources if safe to do so.

Evacuate area and fight fire from from the upwind side.

## 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.

Isolate area and prevent access.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Allow to evaporate.

Absorb liquid components with liquid-binding material.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

· **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**

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Provide ventilation for receptacles.

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- Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Store away from oxidizing agents.
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.
  - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **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)	Ceiling limit: 0,2 mg/m <sup>3</sup> , 0,02 ppm
REL (USA)	Long-term value: 0,05 mg/m <sup>3</sup> , 0,005 ppm Ceiling limit: 0,2* mg/m <sup>3</sup> , 0,02* 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

#### 115-10-6 dimethyl ether

IOELV (EU)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
WEEL (USA)	Long-term value: 1000 ppm
EL (Canada)	Long-term value: 1000 ppm

#### 75-28-5 isobutane

TLV (USA)	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
EV (Canada)	Long-term value: 800 ppm

#### 74-98-6 propane

PEL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	refer to Appendix F: minimal oxygen content
EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1,000 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

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- **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:**

Suitable respiratory protective device recommended.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

- **Protection of hands:**



Protective gloves

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

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 can not 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:**

Contact lenses should not be worn.



Tightly sealed goggles

- **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.

No further relevant information available.

## 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:**

Aerosol

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<ul style="list-style-type: none"> <li>· <b>Colour:</b></li> <li>· <b>Odour:</b></li> <li>· <b>Odour threshold:</b></li> <li>· <b>pH-value:</b></li> <li>· <b>Change in condition</b> <ul style="list-style-type: none"> <li><b>Melting point/Melting range:</b></li> <li><b>Boiling point/Boiling range:</b></li> </ul> </li> <li>· <b>Flash point:</b></li> <li>· <b>Flammability (solid, gaseous):</b></li> <li>· <b>Auto/Self-ignition temperature:</b></li> <li>· <b>Decomposition temperature:</b></li> <li>· <b>Self-igniting:</b></li> <li>· <b>Danger of explosion:</b></li> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li><b>Lower:</b></li> <li><b>Upper:</b></li> </ul> </li> <li>· <b>Vapour pressure:</b></li> <li>· <b>Density at 20 °C:</b></li> <li>· <b>Relative density</b></li> <li>· <b>Vapour density</b></li> <li>· <b>Evaporation rate</b></li> <li>· <b>Solubility in / Miscibility with water:</b></li> <li>· <b>Partition coefficient (n-octanol/water):</b></li> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li><b>Dynamic:</b></li> <li><b>Kinematic:</b></li> </ul> </li> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li><b>VOC (US EPA Method 24)</b></li> </ul> </li> <li>· <b>9.2 Other information</b></li> </ul>	<ul style="list-style-type: none"> <li>Colourless</li> <li>Petroleum-like</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not Determined.</li> <li>-44 °F / -42 °C (Propellant)</li> <li>-156 °F / -104 °C</li> <li>Not applicable.</li> <li>455 °F / 235 °C (Estimate)</li> <li>Not determined.</li> <li>Product is not self-igniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>1 g/cm<sup>3</sup></li> <li>Not determined.</li> <li>Not determined.</li> <li>Not applicable.</li> <li>Fully miscible.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>17,7 % wt (177 g/l)</li> <li>No further relevant information available.</li> </ul>
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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.  
To avoid thermal decomposition do not overheat.

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- **10.3 Possibility of hazardous reactions**  
 Danger of receptacles bursting because of high vapour pressure when heated.  
 Toxic fumes may be released if heated above the decomposition point.  
 Develops readily flammable gases/fumes.  
 Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.  
 Violent reaction with concentrated alkali and oxidizing agents.  
 Reacts with catalysts.  
 Reacts with certain metals.
- **10.4 Conditions to avoid**  
 Store away from oxidizing agents.  
 Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
 Carbon monoxide and carbon dioxide  
 Isocyanate  
 Hydrogen cyanide (prussic acid)  
 Nitrogen oxides  
 Ammonia

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **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  
 Toxic and/or corrosive effects may be delayed up to 24 hours.  
 Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.  
 Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
- **Acute effects (acute toxicity, irritation and corrosivity):**  
 Danger through skin adsorption.  
 Vapours have narcotic effect.  
 Harmful if inhaled.  
 Irritating to respiratory system.
- **Sensitisation:**  
 Sensitization possible by skin contact.  
 Sensitization possible by inhalation and/or dermal contact.

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- **Repeated dose toxicity:**  
May cause damage to organs through prolonged or repeated exposure.  
Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**  
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.  
Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950

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- **14.2 UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**

- **DOT**



- **Class** 2.1
- **Label** 2.1

- **ADR**



- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**



- **Class** 2.1
- **Label** 2.1
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Gases.
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U
- **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)** 1L
- **Transport category** 2
- **Tunnel restriction code** D
- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

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# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

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<b>Trade name: Touch N Foam Professional All-Purpose Foam Sealant</b>
---

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## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· <b>Section 355 (extremely hazardous substances):</b>
--

None of the ingredients is listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
--

9016-87-9   polymethylene polyphenylene isocyanate
--

· <b>TSCA (Toxic Substances Control Act):</b>
---

All ingredients are listed.
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· <b>Proposition 65 (California):</b>
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· <b>Chemicals known to cause cancer:</b>
---

None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
---

None of the ingredients is listed.
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· <b>Carcinogenic Categories</b>
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· <b>EPA (Environmental Protection Agency)</b>
--

9016-87-9   polymethylene polyphenylene isocyanate	CBD
--	-----

· <b>IARC (International Agency for Research on Cancer)</b>
---

9016-87-9   polymethylene polyphenylene isocyanate	3
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· <b>TLV (Threshold Limit Value established by ACGIH)</b>
---

None of the ingredients is listed.
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
---

None of the ingredients is listed.
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· <b>Canada</b>
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· <b>Canadian Domestic Substances List (DSL)</b>
--

All ingredients are listed.
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· <b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
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None of the ingredients is listed.
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· <b>Canadian Ingredient Disclosure list (limit 1%)</b>
---

None of the ingredients is listed.
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· <b>Other regulations, limitations and prohibitive regulations</b>
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This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
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· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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.

· **Relevant phrases**

- H220 Extremely flammable gas.
  - H280 Contains gas under pressure; may explode if heated.
  - 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.
  - H373 May cause damage to organs through prolonged or repeated exposure.
- 
- R12 Extremely flammable.
  - R20 Harmful by inhalation.
  - R36/37/38 Irritating to eyes, respiratory system and skin.
  - R40 Limited evidence of a carcinogenic effect.
  - R42/43 May cause sensitisation by inhalation and skin contact.
  - R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

· **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)  
 Flam. Gas 1: Flammable gases, Hazard Category 1  
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
 Press. Gas: Gases under pressure: Compressed gas  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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**· Sources**

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