



### **Section 1. Identification GHS product identifier** 2 **Document product code** ŝ Other means of : Not available. identification **Product type** : Aerosol. Relevant identified uses of the substance or mixture and uses advised against **Identified uses** ż Supplier/Manufacturer 2 **Emergency telephone** 2 number (with hours of operation)

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Section 2. Hazards	s identification
Hazard statements	<ul> <li>H222 - Extremely flammable aerosol. 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. 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. (respiratory system)</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P284 - Wear respiratory protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe dust or mist.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace.</li> <li>P251 - Pressurized container: Do not pierce or burn, even after use.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P332 + P313 - If skin irritation occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	<ul> <li>P405 - Store locked up.</li> <li>P410 + P403 - Protect from sunlight.</li> <li>P410 + P412 - Do not expose to temperatures exceeding 50 °C/122 °F.</li> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture		
Other means of		
identification		

: Mixture

: Not available.

Ingredient name	%	CAS number
tris(2-Chloro-1-methylethyl) phosphate	30 - 60 10 - 30 10 - 30	9016-87-9 13674-84-5 101-68-8



### Section 3. Composition/information on ingredients

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

<b>Description of necessar</b>	<u>y first aid measures</u>
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptor	ns/effects, acute and delayed

#### Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation ÷. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : Causes skin irritation. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. **Over-exposure signs/symptoms** : Adverse symptoms may include the following: Eye contact pain or irritation watering redness



## Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods and materials for co</u>	nta	ainment and cleaning up
Spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

### Control parameters

#### **United States**

#### **Occupational exposure limits**

Ingredient name	Exposure limits	
Isocyanic acid, polymethylenepolyphenylene ester tris(2-Chloro-1-methylethyl) phosphate 4,4'-Methylenediphenyl Diisocyanate	None. None. ACGIH TLV (United States, 3/2019). TWA: 0.005 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m <sup>3</sup> 10 hours. TWA: 0.005 ppm 10 hours. CEIL: 0.2 mg/m <sup>3</sup> 10 minutes. CEIL: 0.02 ppm 10 minutes. OSHA PEL (United States, 5/2018). CEIL: 0.02 ppm CEIL: 0.2 mg/m <sup>3</sup>	

#### <u>Canada</u>

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	<ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 0.07 mg/m<sup>3</sup> 8 hours.</li> <li>8 hrs OEL: 0.005 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 5/2019).</li> <li>TWA: 0.005 ppm 8 hours.</li> <li>C: 0.01 ppm</li> <li>CA Ontario Provincial (Canada, 1/2018).</li> <li>C: 0.02 ppm</li> <li>TWA: 0.005 ppm 8 hours.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 0.005 ppm 8 hours.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 0.005 ppm 8 hours.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 0.005 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 5/2019). Inhalation sensitizer.</li> <li>TWA: 0.005 ppm 8 hours.</li> <li>C: 0.01 ppm</li> <li>CA Quebec Provincial (Canada, 1/2014). Skin sensitizer.</li> <li>TWAEV: 0.051 mg/m<sup>3</sup> 8 hours.</li> <li>CA Ontario Provincial (Canada, 1/2018).</li> <li>TWA: 0.005 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 0.015 ppm 15 minutes.</li> <li>TWA: 0.005 ppm 8 hours.</li> </ul>

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



### Section 8. Exposure controls/personal protection

### Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Gas. [Aerosol.]
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Flammable aerosol
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 110 kPa (1.10 bar) [50°C (122°F)]
Vapor density	: Not available.
Relative density	: 16 to 22 kg/m3
Solubility	: Insoluble



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Section 9. Physical and chemical properties		
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Not available.	
Flow time (ISO 2431)	: Not available.	
VOC = Volatile Organic Compound		
Aerosol product		
Type of aerosol	: Spray	

#### and reactivity ,0011 10.

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity				
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Product/ingredient name	Result	Species	Dose	Exposure
Isocyanic acid, polymethylenepolyphenylene ester	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
tris(2-Chloro-1-methylethyl) phosphate	LD50 Oral	Rat	1500 mg/kg	-
4,4'-Methylenediphenyl Diisocyanate	LD50 Oral	Rat	9200 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isocyanic acid, polymethylenepolyphenylene ester	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 mg	-

### **Sensitization**

There is no data available.

## Section 11. Toxicological information

### **Mutagenicity**

#### There is no data available.

#### **Carcinogenicity**

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Isocyanic acid, polymethylene ester	-	3	-
4,4'-Methylenediphenyl Diisocyanate	-	3	-

### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Target organs
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	- 5 / -	Respiratory tract irritation Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Target organs
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	0,	respiratory system respiratory system

#### **Aspiration hazard**

There is no data available.

Information on the likely	: Dermal contact. Eye contact. Inhalation. Ingestion.
routes of exposure	

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.



## Section 11. Toxicological information

#### Short term exposure Potential immediate : No known significant effects or critical hazards. effects **Potential delayed effects** : No known significant effects or critical hazards. Long term exposure **Potential immediate** : No known significant effects or critical hazards. effects Potential delayed effects : No known significant effects or critical hazards. Potential chronic health effects General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity Suspected of causing cancer. Risk of cancer depends on duration and level of 5 exposure. Mutagenicity 2 No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
	7500 mg/kg 24.44 mg/L 9.52 mg/L

### Section 12. Ecological information

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
tris(2-Chloro-1-methylethyl) phosphate		0.8 to 2.8	low
4,4'-Methylenediphenyl Diisocyanate	4.51	200	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.



### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN1950	UN1950	UN1950	UN1950
Aerosols, flammable	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
2.1	2.1	2.1	2.1
-	-	-	-
No.	No.	No.	No.
	UN1950 Aerosols, flammable 2.1	UN1950 UN1950 Aerosols, flammable Aerosols, flammable 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	UN1950     UN1950     UN1950       Aerosols, flammable     Aerosols, flammable     Aerosols, flammable       2.1     2.1     2.1       Image: Constraint of the second

DOT-RQ Details	:	4,4'-Methylenediphenyl Diisocyanate	5000 lbs / 2270 kg	
Additional information				
DOT Classification	:		4412.7 kg. Package sizes shipped in quantities les y are not subject to the RQ (reportable quantity)	S
TDG Classification	:	Product classified as per the followi Goods Regulations: 2.13-2.17 (Clas	ing sections of the Transportation of Dangerous ss 2).	
Special precautions for user	:	• •	a: always transport in closed containers that are rsons transporting the product know what to do in the product know what know w	he

## Section 15. Regulatory information

U.S. Federal regulations	:	United States inventory (TSCA 8b): All components are active or exempted.
		Clean Water Act (CWA) 307: 4,4'-Methylenediphenyl Diisocyanate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed

## Section 15. Regulatory information

<b>J</b>	
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### **Composition/information on ingredients**

Name	Classification
Isocyanic acid, polymethylenepolyphenylene ester	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
tris(2-Chloro-1-methylethyl) phosphate	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ACUTE TOXICITY (oral) - Category 4
4,4'-Methylenediphenyl Diisocyanate	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### <u>SARA 313</u>

	Product name	CAS number
Form R - Reporting requirements	Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	9016-87-9 101-68-8
Supplier notification	Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	9016-87-9 101-68-8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

Massachusetts

: The following components are listed: 4,4'-Methylenediphenyl Diisocyanate

## Section 15. Regulatory information

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New York	: The following components are listed: 4,4'-Methylenediphenyl Diisocyanate
New Jersey	<ul> <li>The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate</li> </ul>
Pennsylvania	: The following components are listed: 4,4'-Methylenediphenyl Diisocyanate
<u>California Prop. 65</u>	
This product does not	require a Safe Harbor warning under California Prop. 65.
Canadian lists	
Canada inventory (DSL NDSL)	: All components are listed or exempted.
Canadian NPRI	: The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate
CEPA Toxic substances	: The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

### Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	Expert judgment
GASES UNDER PRESSURE - Compressed gas	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History	
Date of issue mm/dd/yyyy	: 06/30/2020
Date of previous issue	: Not applicable
Version	: 1
Internal code	: 261-153
Prepared by	: KMK Regulatory Services Inc.
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.