

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Temstock FR Free, Temstock FR	
Other means of identification		
SDS number	GP-34C	
Recommended use	Building Materials - Decorative	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	Georgia-Pacific Wood Products LLC	
Address	133 Peachtree Street, NE	
	Atlanta, GA 30303	
Telephone	Technical Information: 800.284.5347	
	(M)SDS Request: 404.652.5119	
e-mail	MSDSREQ@GAPAC.COM	
Emergency phone number	Chemtrec - Emergency: 800.424.9300	
Importer/Supplier/ Distributor		
Company name	GP North Woods LP	
Address	327022 Highway 11	
	Englehart, ON P0J 1H0	
Telephone	Technical Information: 705-544-2395	
	(M)SDS Request: 404.652.5119	
e-mail	MSDSREQ@GAPAC.com	
Emergency phone number	Chemtrec - Emergency: 800.424.9300	

## 2. Hazard(s) identification

Emergency overview	This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., grinding, sanding, cutting, pulverizing) that reduce its particle size. Those hazards are described below.	
Physical hazards	Combustible dusts Category 1	
Health hazards	Eye irritation	Category 2B
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1A
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1B
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity following repeated exposure	Category 1 (respiartory system)
Environmental hazards	Not classified.	
Label elements		



Hazard statement	May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause cancer. May damage fertility or the unborn child. Causes damage to organs (respiartory system) through prolonged or repeated exposure. If small particles of wood dust are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Prevent dust accumulation and airborne dispersion of dust to minimize flash fire and explosion hazard. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Observe good industrial hygiene practices.
Response	IF IN EYES: 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
WOOD/WOOD DUST		Not assigned	76 - 80
POLYMERIC MDI (pMDI)		9016-87-9	0.7 - < 2
4,4'-DIPHENYLMETHANE DIISOCYANATE		101-68-8	0.4 - < 2
Boric acid		10043-35-3	11 - 14
2,4'-DIPHENYL METHANE DIISOCYANATE		5873-54-1	< 0.2
Other components below reporta	ble levels		3 - < 7

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation	Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.
Skin contact	If irritation develops, wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. Get medical attention if irritation develops and persists.
Ingestion	If wood or wood dust is swallowed, get immediate medical attention or advice Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash. May cause respiratory irritation. Difficulty in breathing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Unsuitable extinguishing media	Heavy water (or jet) stream may cause dust to become airborne and create a flash fire hazard or an explosive atmosphere.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	To avoid dust clouds, responders should use the extinguisher from as far away as possible and apply the extinguishing agent as gently as possible. The main considerations with hose stream operation are to avoid creating combustible dust clouds or introducing more air. In particular, the use of solid streams and direct dust pile hits can disperse dust into the air creating a potential flash fire hazard. The best way to apply water is in a medium to wide-pattern, as gently as possible. Responders should use a low nozzle pressure and loft the stream onto the burning material from as far away as the stream will reach.
General fire hazards	May form combustible dust concentrations in air.
6. Accidental release mea	asures

Personal precautions, protective equipment and emergency procedures	Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Vacuum dust with dust ignition proof vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods (e.g. water mist) and prevent scattering by moistening with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Minimise dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. If flash fire or explosion hazard is present, wear flame resistant clothing and face/head protection. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use personal

protective equipment as required. Ensure dust collection systems used for conveying combustible wood dusts are protected with and equipped with fire and explosion prevention and protection equipment. See NFPA 664 and NFPA 69 for further requirements, information and guidance.

Store flat, supported and protected from direct contact with the ground. Store away from

incompatible materials (see Section 10 of the SDS). Store in a cool dry place.

Conditions for safe storage, including any incompatibilities

Material name: Temstock FR Free, Temstock FR 5282 Version #: 01 Issue date: 05-31-2017

## 8. Exposure controls/personal protection

## Occupational exposure limits

ACGIH Components	Туре	Value	Form
WOOD/WOOD DUST	TWA	1 mg/m3	Inhalable fraction.
JS ACGIH Threshold Limit Valu	es: Short Term Exposure Limi	t (STEL): mg/m3	
Components	Туре	Value	Form
BORIC ACID (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
JS ACGIH Threshold Limit Valu			
Components	Туре	Value	Form
BORIC ACID (CAS	TWA	2 mg/m3	Inhalable fraction.
10043-35-3)			
JS. ACGIH Threshold Limit Valu			
Components	Туре	Value	
4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS L01-68-8)	TWA	0.005 ppm	
Canada. Alberta OELs (Occupat Components	ional Health & Safety Code, S Type	chedule 1, Table 2) Value	Form
1,4'-DIPHENYLMETHANE	TWA	0.05 mg/m3	
DIISOCYANATE (CAS	1 4 4 7 3	0.05 mg/m5	
101-68-8)			
-		0.005 ppm	
POLYMERIC MDI (pMDI)	TWA	0.07 mg/m3	
CAS 9016-87-9)			
		0.005 ppm	
Canada. British Columbia OELs. Safety Regulation 296/97, as a			Total particulate.
WOOD/WOOD DUST Canada. British Columbia OELs. Safety Regulation 296/97, as a Components	(Occupational Exposure Limi	10 mg/m3	Total particulate.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 1,4'-DIPHENYLMETHANE	(Occupational Exposure Limi mended)	10 mg/m3 ts for Chemical Substances	Total particulate. , Occupational Health
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 1,4'-DIPHENYLMETHANE DIISOCYANATE (CAS	(Occupational Exposure Limi mended) Type	10 mg/m3 Its for Chemical Substances Value	Total particulate. , Occupational Health
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 1,4'-DIPHENYLMETHANE	(Occupational Exposure Limi mended) Type Ceiling	10 mg/m3 its for Chemical Substances Value 0.01 ppm	Total particulate. , Occupational Health
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)	<b>(Occupational Exposure Limi</b> mended) Type Ceiling TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm	Total particulate. , Occupational Health Form
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) BORIC ACID (CAS	(Occupational Exposure Limi mended) Type Ceiling	10 mg/m3 its for Chemical Substances Value 0.01 ppm	Total particulate. , Occupational Health
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)	(Occupational Exposure Limi mended) Type Ceiling TWA STEL	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3	Total particulate. , Occupational Health Form Inhalable
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) BORIC ACID (CAS 10043-35-3)	(Occupational Exposure Limi mended) Type Ceiling TWA STEL TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3	Total particulate. , Occupational Health Form Inhalable Inhalable
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) BORIC ACID (CAS	(Occupational Exposure Limi mended) Type Ceiling TWA STEL	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST	Ceiling TWA STEL TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3	Total particulate. , Occupational Health Form Inhalable Inhalable
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) BORIC ACID (CAS 10043-35-3)	Ceiling TWA STEL TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA TWA 217/2006, The Workplace Safe	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE	Ceiling TWA STEL TWA TWA STEL TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act)	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA TWA 217/2006, The Workplace Safe	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA TWA 217/2006, The Workplace Safe	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)	Ceiling TWA STEL TWA TWA STEL TWA TWA TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm	Total particulate. , Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust. Form
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS	Ceiling TWA STEL TWA TWA STEL TWA TWA TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) Canada. Ontario OELs. (Ministre	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA tWA TWA TWA STEL TWA STEL TWA sTEL TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3 re to Biological or Chemical	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Inhalable fraction.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 3ORIC ACID (CAS 10043-35-3)	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA tWA tWA tWA CIT/2006, The Workplace Safe Type TWA STEL TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Inhalable fraction.
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) Canada. Ontario OELs. (Ministry Components 4,4'-DIPHENYLMETHANE	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA tWA TWA TWA STEL TWA STEL TWA sTEL TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3 re to Biological or Chemical	, Occupational Health Form Inhalable Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Agents)
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 10043-35-3) Canada. Ontario OELs. (Ministry Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS	Ceiling TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3 re to Biological or Chemical Value	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Agents)
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) Canada. Ontario OELs. (Ministry Components 4,4'-DIPHENYLMETHANE	(Occupational Exposure Limit mended) Type Ceiling TWA STEL TWA TWA twA TWA TWA STEL TWA STEL TWA sTEL TWA Ceiling Ceiling	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3 re to Biological or Chemical Value 0.02 ppm	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Agents)
Canada. British Columbia OELs. Safety Regulation 296/97, as a Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) 30RIC ACID (CAS 10043-35-3) WOOD/WOOD DUST Canada. Manitoba OELs (Reg. 2 Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 10043-35-3) Canada. Ontario OELs. (Ministry Components 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS	Ceiling TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	10 mg/m3 its for Chemical Substances Value 0.01 ppm 0.005 ppm 6 mg/m3 2 mg/m3 3 mg/m3 10 mg/m3 ety And Health Act) Value 0.005 ppm 6 mg/m3 2 mg/m3 re to Biological or Chemical Value	Total particulate. , Occupational Health Form Inhalable Respirable fraction. Total dust. Form Inhalable fraction. Inhalable fraction. Agents)

Components	Туре	Value	Form
	TWA	3 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.
Canada. Quebec OELs. (M Components	linistry of Labour - Regulation Respe Type	ecting the Quality of the W Value	ork Environment) Form
4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)	TWA	0.051 mg/m3	
		0.005 ppm	
WOOD/WOOD DUST	TWA	10 mg/m3	Total dust.
logical limit values	No biological exposure limits noted fo	r the ingredient(s).	
oosure guidelines			
Canada - British Columbi	a OELs: Skin designation		
4,4'-DIPHENYLMETHAN	E DIISOCYANATE (CAS 101-68-8) Can b	e absorbed through the skin.	
propriate engineering Itrols	Due to the fire and explosive potentia when material is used in any operatio ventilation in enclosed areas, and exp appropriate, to reduce airborne dust o	n which may generate dust. L losion proof equipment is reco	ocal exhaust, general dilution
lividual protection measur	es, such as personal protective equi	pment	
Eye/face protection	Safety glasses or goggles are recomm	-	ct.
Skin protection			
Hand protection	Wear appropriate chemical resistant g supplier.	loves. Suitable gloves can be	recommended by the glove
Other	Impervious protective clothing and glo Safety shower/eye wash fountain is re		
Respiratory protection	When workers are facing concentratic certified respirators.	ons above the exposure limit the	ney must use appropriate
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
neral hygiene Isiderations	When using, do not eat, drink or smo personal hygiene measures, such as w drinking, and/or smoking. Routinely w contaminants. Contaminated work clo	vashing after handling the ma wash work clothing and protec	terial and before eating, tive equipment to remove
Physical and chemica	l properties		
pearance	Rigid boards or panels		
Physical state	Solid.		
Form	Solid wood		
Colour	Various		
our	Not available.		
our threshold	Not available.		
	Not applicable		

Form	Solid wood

рН	Not applicable
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not available.
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	40 g/cm3 for wood dust (Note: The LEL is quivalent to the Minimum Explosive Concentration (MEC) for the combustible dust. The MEC will vary with particle size of the wood dust. Recommend MEC testing for specific wood dust particle sizes generated or handled.)
Flammability limit - upper (%)	Not available

Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	204.4 - 260 °C (399.92 - 500 °F) for wood
Decomposition temperature	Not available
Viscosity	Not available.
Other information	
Bulk density	Not applicable
Dust explosion properties	
St class	1 Weak explosion.
Explosive properties	Not explosive.
Flash point class	Combustible
Oxidising properties	Not oxidising.
Specific gravity	Variable

## 10. Stability and reactivity

Reactivity Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Dust accumulation, dispersion of dust in air, high temperatures, open flame, sparks, or other sources of ignition.
Incompatible materials	Strong acids, alkalies, oxidizing agents and drying oils.
Hazardous decomposition products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.

## **11.** Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes eye irritation.
Ingestion	Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

#### Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test results
Temstock FR Free, Temsto	ock FR	
<u>Acute</u>		
Inhalation		
LC50	Rat	14 mg/l, 4 Hours estimated

Components	Species	Test results
4,4'-DIPHENYLMETHANE DIISOCY	ANATE (CAS 101-68-8)	
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
Vapour		
LC50		0.178 mg/l
Oral		
LD50	Rat	> 10000 mg/kg
Boric acid (CAS 10043-35-3)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 2 mg/l, 4 Hours
Oral		
LD50	Rat	2660 mg/kg
* Estimates for product may b		
Skin corrosion/irritation	-	y cause temporary irritation.
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory or skin sensitisati	on	
Canada - British Columbia		sensiticer
		3-8) Capable of causing respiratory, dermal or conjunctival sensitizatio
Canada - Quebec OELs: Se	-	
-	DIISOCYANATE (CAS 101-6	3-8) Sensitiser.
Canada - Saskatchewan O		
WOOD/WOOD DUST (CA	S Not assigned)	Sensitiser.
<b>Respiratory sensitisation</b>	May cause allergy or asthr	na symptoms or breathing difficulties if inhaled.
Skin sensitisation	May cause an allergic skin	reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC), and National Toxicology Program (NTP) classifies wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to wood dust.	
ACGIH Carcinogens		
Boric acid (CAS 10043-35	2	A4 Not classifiable as a human carcinogen.
Canada - Manitoba OELs: o		
Boric acid (CAS 10043-35	,	Not classifiable as a human carcinogen.
IARC Monographs. Overall	-	-
4,4'-DIPHENYLMETHANE POLYMERIC MDI (pMDI) WOOD/WOOD DUST (CA US. National Toxicology Pi	(CAS 9016-87-9) S Not assigned)	<ul> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>1 Carcinogenic to humans.</li> </ul>
WOOD/WOOD DUST (CA		Known To Be Human Carcinogen.
Reproductive toxicity	May damage fertility or the	-
Specific target organ toxicity	May cause respiratory irritation.	
- single exposure		

Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test results
Temstock FR Free, Te	mstock FR		
Aquatic			
Crustacea	EC50	Daphnia	5475 mg/l, 48 Hours estimated
Fish	LC50	Fish	2736.7346 mg/l, 96 hours estimated
Components		Species	Test results
Boric acid (CAS 10043	3-35-3)		
Aquatic			
Crustacea	EC50	Daphnia	766.5 mg/l, 48 Hours
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty packaging/container can be disposed in accordance with all applicable regulations.

## **14. Transport information**

#### TDG

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

#### **Canadian regulations**

Controlled Drugs and Substances Act

Not regulated. Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

#### Precursor Control Regulations

Not regulated.

**International regulations** 

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

Kyoto protocol

Not applicable. Montreal Protocol

Not applicable. Basel Convention

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	ents of this product comply with the inventory requirements administere components of the product are not listed or exempt from listing on the	, 5 5 ,(,
16. Other information		
<b>- -</b> .		

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Disclaimer	This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.
Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory Information: United States HazReg Data: North America GHS: Qualifiers