SAFETY DATA SHEET

Product identifier	PDR 9000 ULTRA FAST					
Other means of identification						
SKU#	103100					
Recommended use	Not available.					
Recommended restrictions	None known.					
Manufacturer/Importer/Suppli	er/Distributor information					
Company name	ITW Performance Polymers					
Address	35 Brownridge Rd					
	Unit 1					
	Halton Hills, ON L7G 0C6					
Contact person	Customer Service					
Felephone number	978-777-1100					
Fax						
E-mail						
Emergency telephone number	800-424-9300					
Supplier	Not available.	Not available.				
2. Hazard identification						
Physical hazards	Flammable liquids	Category 3				
Health hazards	Skin corrosion/irritation	Category 2				
	Serious eye damage/eye irritation	Category 2A				
	Sensitization, skin	Category 1				
	Germ cell mutagenicity	Category 1B				
	Carcinogenicity	Category 1				
	Reproductive toxicity	Category 2				
	Specific target organ toxicity following repeated exposure	Category 1				
	Aspiration hazard	Category 1				
Environmental hazards	Not classified.					
Label elements						

Signal word Hazard statement

Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Danger

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
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	%	
Polyester resin		N/A	30 - 60	
Styrene		100-42-5	15 - 40	
Silica, amorphous, fumed		112926-00-8	5 - 10	
Silica, amorphous, fumed	Silica, amorphous, fumed, crystfree	112945-52-5	1 - 5	
Titanium dioxide	Titanium dioxide	13463-67-7	1 - 5	
SILICA, CRYSTALLINE, QUAF	RTZ	14808-60-7	0.1 - 1	
Other components below repor	table levels		15 - 40	

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

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary oedema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Material name: PDR 9000 ULTRA FA	ST SDS CANADA

Specific hazards arising from the chemical	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapour.
6. Accidental release mea	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. 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). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	Occupational	exposure	limits
------------------------------	--------------	----------	--------

Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction
STYRENE (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
STYRENE (CAS 100-42-5)	STEL	170 mg/m3	
		40 ppm	
	TWA	85 mg/m3	
		20 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
SILICA, AMORPHOUS, FUMED (CAS 112926-00-8)	TWA	4 mg/m3	Total
		1.5 mg/m3	Respirable.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
STYRENE (CAS 100-42-5)	STEL	75 ppm	
	TWA	50 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
STYRENE (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
STYRENE (CAS 100-42-5)	STEL	100 ppm	
	TWA	35 ppm	

Canada. Ontario OELs. (Co Components	-	ype		lue	Form
Titanium dioxide (CAS 13463-67-7)	Т	WA	10	mg/m3	
Canada. Quebec OELs. (Min Components		Regulation respecting		nealth and saf lue	ety) Form
SILICA, AMORPHOUS, FUMED (CAS 112926-00-8)	Т	WA	6 r	ng/m3	Respirable dust.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	Т	WA	0.1	mg/m3	Respirable dust.
STYRENE (CAS 100-42-5)	S	TEL	42	6 mg/m3	
			10	0 ppm	
	Т	WA	21	3 mg/m3	
			50	ppm	
Titanium dioxide (CAS 13463-67-7)	Т	WA	10	mg/m3	Total dust.
Canada. Saskatchewan OE Components	• •	-		6, Table 21) lue	Form
· · ·		уре	-		_
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)		hour)5 mg/m3	Respirable fraction.
STYRENE (CAS 100-42-5)		5 minute		ppm	
	8	hour		ppm	
Titanium dioxide (CAS 13463-67-7)	1:	5 minute		mg/m3	
	8	hour	10	mg/m3	
logical limit values					
ACGIH Biological Exposure	e Indices /alue	Determinant	Specimen	Sampling T	īme
STYRENE (CAS 100-42-5)	l0 ua/l	Styrene	Urine	*	
, , , , , , , , , , , , , , , , , , ,	100 mg/g	Mandelic acid	Creatinine in	*	
	100 mg/g	plus phenylglyoxylic	urine		
* F		acid			
* - For sampling details, pleas	se see the source	document.			
oosure guidelines					
Canada - Quebec OELs: Sk	In designation	Can be			
Styrene (CAS 100-42-5)	Explosion proof		absorbed throu	-	contilation should be used
propriate engineering atrols	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommende exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.				
ividual protection measures Eye/face protection	•	al protective equipme ator with organic vapor		full facepiece.	
Skin protection					
Hand protection	Wear appropria	te chemical resistant g	loves.		
Other	Wear appropria	te chemical resistant c	lothing. Use of a	n impervious a	pron is recommended.
Respiratory protection	Chemical respire	ator with organic vapo	ur cartridge and	full facepiece.	
Thermal hazards	Wear appropria	te thermal protective cl	othing, when ne	cessary.	
neral hygiene Isiderations	Observe any me	edical surveillance requ	irements. Wher	n using do not s	smoke. Always observe go erial and before eating,

9. Physical and chemical properties

9. Physical and chemical properties		
Appearance	Viscous. Liquid.	
Physical state	Liquid.	
Form	Viscous. Liquid.	
Colour	Off-white	
Odour	Aromatic.	
Odour threshold	Not available.	
рН	Not available.	
Melting point/freezing point	-31 °C (-23.8 °F) estimated	
Initial boiling point and boiling range	145 °C (293 °F) estimated	
Flash point	32.0 °C (89.6 °F) estimated	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp		
Flammability limit - lower (%)	1.1 % estimated	
Flammability limit - upper (%)	6.1 % estimated	
Explosive limit - lower (%)	Not available.	
Explosive limit – upper (%)	Not available.	
Vapour pressure	8.53 hPa estimated	
Vapour density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	490 °C (914 °F) estimated	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	1.53 g/cm3 estimated	
Explosive properties	Not explosive.	
Flammability class	Flammable IC estimated	
Oxidising properties	Not oxidising.	
Specific gravity	1.53 estimated	
10. Stability and reactivity	1	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidising agents. Aluminium. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.
44. Table also de al informa	

11. Toxicological information

Information on likely routes of exposure Inhalation Prolong

Prolonged inhalation may be harmful.

Skin contactCauses skin initiation. May cause an allergic skin reaction.Eye contactGauses serious eye initiation.IngestionKnowledge about health hazard is incomplete. Droplets of the product aspirated into the lungs include shing registion or worming rany cause a serious chemical pineumonia.Symptome related to the physical, chemical and and pain. May cause an allergic Skin readers.Series and pain. May cause an allergic Skin readers.Stocloogical chemacteristicsand pain. May cause an allergic Skin readers.Skin initiation. Skin initiation. May cause referees a morphous, lumed (CAS 112945-52:5)AcuteAcuteSpoclesTest ResultsOral LD50Rat> 22500 mg/kgSilica, amorphous, lumed (CAS 112945-52:5)State Skin (Trittation.Acute Oral LD50Rat1 g/kgSilica amorphous, furied (CAS 112945-52:5)State Skin (Trittation.Strice aronsolon/irritationGauses skin irritation.Strice aronsolon/irritationCauses skin irritation.Strice aronsolon/irritationCauses skin irritation.Respiratory or skin sensitisationMay cause analergic skin reaction is not possible.Skin corresolon/irritationMay cause querici defects.Garcia caliberitationMay cause analergic skin reaction.Skin sensitisationMay cause analergic skin reaction.Respiratory sensiticationMay cause analergic skin reaction.Skin sensitisationMay cause analergic skin reaction.Respiratory sensiticationMay cause analergic skin reaction.Skin corresolon/irritationMay cause anale				
İngestion Knowlega ebout health hazard is incomplete. Oroplets of the product aspirated into the lungs include singestion ar worntling may cause a serious chemical pneumonia. Symptoms related to the physical, chemical pneumonia. Aspiration may cause quimonary oedema and pneumonis. Severe evinitation. Symptoms may include singing, tearing, recharges, swelling, and blurred vision. Skin intration. May cause redness a toxicological directories. Totoropention Species Test Results Components Species 22500 mg/kg Silica, amorphous, lumed (CAS 112945-52-5) - - Acute Name Species 22500 mg/kg Silica, amorphous, lumed (CAS 112945-52-5) - - - Acute Oral > 22500 mg/kg Cipsion Rat > 22500 mg/kg Silica, amorphous, lumed (CAS 112945-52-5) - - Acute Oral > 22500 mg/kg Cipsion Rat 1 g/kg Silica, amorphous, lumed (CAS 112945-52-5) - - Cipsion Rat 1 g/kg Silica, amorphous, lumed (CAS 112945-52-7) I g/kg Cipsion Rat 1 g/kg	Skin contact	Causes skin irritation. May ca	use an allergic skin reaction.	
through ingestion or vomiting may cause a serious chemical prisumonia. Symptoms related to the physical, chemical and characteristics information on toxicological effects Acute on an toxicological effects Acute on an toxicological effects Acute on an toxicological effects Acute on an toxicological effects Acute on toxicological effects A	Eye contact	Causes serious eye irritation.		
pipyiacia, chemical and include stingin; tearing:, radness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Information on toxicological effects Acute Species Test Results Silica, amorphous, fumed (CAS 112926-00.8) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, fumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, fumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silyrene (CAS 100-42-5) Acute Oral LD50 Rat 1 g/kg Silyrene (CAS 100-42-5) Canado Alberta OEL: Irritant Causes skin irritation. Serious eye damageiveg Causes skin irritation. Serious eye damageiveg Silyrene (CAS 100-42-5) Kaute Causes skin irritation. Serious eye damageiveg Silyrene (CAS 104-83-77) Irritant Tatanium doxide (CAS 1348-85-77) Kause an allergic skin reaction. Germ cell mutagenicity May cause an allergic skin reaction. Germ cell mutagenicity May cause an allergic skin reaction. Germ cell mutagenicity SiliCA, CRYSTALLINE, OUARTZ (CAS 14808-80-7) SiliCA,	Ingestion			
Acute toxicity May be fatal if swallowed and enters airways. Components Species Test Results Silica, amorphous, turned (CAS 112926-00-8)	physical, chemical and	include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness		
Components Species Test Results Silica, amorphous, tumed (CAS 112926-00-8) Acute -22500 mg/kg LD50 Rat -22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute -22500 mg/kg Acute -22500 mg/kg Oral -22500 mg/kg LD50 Rat -22500 mg/kg Styrene (CAS 100-42-5)	Information on toxicological eff	ects		
Silica, amorphous, tumed (CAS 112926-00-8) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, tumed (CAS 110-42-5) Acute Oral LD50 Rat 1 g/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation. Fritation Canada - Alberta OELs: Irritant Titanium dioxide (CAS 13463-67-7) Silica, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Silica, amorphous, tumed (CAS 112945-52-5) Suspected human carcinogen. Canada - Alberta OELs: carcinogen category Silica, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Silica, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Silica, amorphous, tumed (CAS 112945-52-5) Silica, CRYSTALLINE, OUARTZ (CAS 114808-60-7) Silica, CRYSTALLI	Acute toxicity	May be fatal if swallowed and	enters airways.	
Acute Oral LD50 Rat > 22500 mg/kg Silica, amorphous, lumed (CAS 112945-52-5)	Components	Species	Test Results	
Oral > 22500 mg/kg LD50 Rat > 22500 mg/kg Silica, amorphous, fumed (CAS 112945-52-5) - - Acute - > 22500 mg/kg Oral - > 22500 mg/kg LD50 Rat > 22500 mg/kg Silica, amorphous, fumed (CAS 100-42-5) - - Acute - > 22500 mg/kg Oral - - > 22500 mg/kg LD50 Rat 1 g/kg Skin corrosion/irritation Causes serious eye irritation. - Serious eye damage/eye Causes serious eye irritation. - Titanium dioxide (CAS 1463-57-7) Irritant - Totanium dioxide CAS 1445-67-7) Irritant - Germ cell mutagenicity May cause an allergic skin reaction. - Germ coll mutagenicity May cause analergic skin reaction. - Skin sensitisation May cause analergic skin reaction. - Germ cell mutagenicity May cause analergic skin reaction. - Skin sensititastion May cause analergic skin<	Silica, amorphous, fumed (CAS 1	12926-00-8)		
LD50Rat> 22500 mg/kgSilica, amorphous, tume) (CAS 11294-542-542-542-542-542-542-542-542-542-54	Acute			
Silica, amorphous, fumed (CAS 112945-52-5) Acute Oral LD50 Rat > 22500 mg/kg Styrene (CAS 100-42-5) Acute Oral D50 Rat 1 g/kg Skin corrosion/irritation Canada - Alberta OELs: Irritant Tinalium dioxide (CAS 13463-67-7) Irritant Respiratory or skin sensitisation Canada - Alberta OELS: Irritant Tinalium dioxide (CAS 13463-67-7) Irritant Respiratory sensitisation May cause genetic defects. Carcinogenicity Advance and allergic skin reaction. Strice, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Strice, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Strice, CAS 100-42-5) At 100-42-5) Titanium dioxide (CAS 13463-67-7) At 100 classifiable as a human carcinogen. A Hont classifiable as a human carcinogen. Not class	Oral			
Acute Oral LD50 Rat > 22500 mg/kg Styrene (CAS 100-42-5)	LD50	Rat	> 22500 mg/kg	
Oral LD50Rat> 22500 mg/kgStyrene (CAS 100-42-5)Acute Oral LD50Rat1 g/kgOral Canad1 g/kgStin corrosion/irritationCauses skin irritation.Serious eye damage/eye tritationCauses serious eye irritation.Respiratory or skin sensitisatiorCanada - Alberta OELs: IrritationRespiratory or skin sensitisationDue to partial or complete tack or data the classification is not possible.Skin sensitisationMay cause an allergic skin reactionGern cell mutagenicityMay cause genetic defects.Skin CarcinogenicityMay cause agenetic defects.Skin CarcinogenicityMay cause agenetic defects.StilCA, CRYSTALLINE, UARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Ato classifiable as a human carcinogen. A Not classifiable as a human carcinogen.StilCA, CRYSTALLINE, UARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen. A Not classifiable as a human carcinogen.StilCA, CRYSTALLINE, UARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen. A Not classifiable as a human carcinogen.StilCA, CRYSTALLINE, UARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen. Styrene (CAS 100-42-5)Ganada - Alberta OELs: carcinogenic tates a human carcinogen. Titanium dixide (CAS 11423-67-7)Not classifiable as a human carcinogen. A to classifiable as a human carcinogen. Canada - Alberta OELs: carcinogenic tates carcinogenic effect in humans. Styrene (CAS 100-42-5)StilCA, CRYSTALLINE, UARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in hum	Silica, amorphous, fumed (CAS 1	12945-52-5)		
LD50Rat> 22500 mg/kgStyrene (CAS 100-42-5)AcuteAcuteOral	Acute			
Styrene (CAS 100-42-5) Acute Oral LD50 Rat 1 g/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye irritation Tertation Respiratory or skin sensitisation Causes serious eye irritation. Serious eye damage/eye Causes serious eye irritation. Serious eye damage/eye irritation Respiratory or skin sensitisation Respiratory or skin sensitisation Respiratory sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause cancer. ACGIH Carcinogen. SiLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected human carcinogen. Titanium dioxide (CAS 13463-67-7) AV tot classifiable as a human carcinogen. Canada - Alberta OELs: Carcinogen category SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Mantoba OELs: carcinogen category SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Mantoba OELs: Carcinogen category SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Mantoba OELs: carcinogen category SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans. Syrene (CAS 100-42-5) Not classifiable as a human carcinogen. SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans. Syrene (CAS 100-42-5) SiluCA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) SiluCA, CRY	Oral			
Acute Oral 1 g/kg LD50 Rat 1 g/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation. Station Causes serious eye irritation. Respiratory or skin sensitisation Causes serious eye irritation. Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause cancer. ACGIH Carcinogens SilLCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) StilLCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) A2 Suspected human carcinogen. SiluCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Alberta OELs: carcinogen category Suspected human carcinogen. SiluCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Manitoba OELs: Carcinogen category Suspected human carcinogen. SiluCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. SiluCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. SilucA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans. Silyrene (CAS 10	LD50	Rat	> 22500 mg/kg	
Oral LD50Rat1 g/kgSkin corrosion/inflationCauses skin inflation.Serious eye damage/eye inflationCauses serious eye inflation.Serious eye damage/eye inflationCauses serious eye inflation.Serious eye damage/eye inflationCauses serious eye inflation.Respiratory or skin sensitisation Respiratory sensitisationInflationMay cause an allergic skin reaction.May cause an allergic skin reaction.Gern cell mutagenicity Stin sensitisationMay cause genetic defects.CarcinogenicityMay cause genetic defects.CarcinogenicityMay cause cancer.SLICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen. A4 Not classifiable as a human carcinogen.SLICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.SLICA, CRYSTALLINE, QUARTZ (CAS 1	Styrene (CAS 100-42-5)			
LD50Rat1 g/kgSkin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses serious eye irritation.Stributor versionCauses serious eye irritation.Respiratory or skin sensitisationCauses serious eye irritationRespiratory or skin sensitisationDue to partial or complete lack of data the classification is not possible.Skin sensitisationMay cause an allergic skin reaction.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.ACGIH CarcinogensX4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen. Not classifiable as to carcinogenicity to huma	<u>Acute</u>			
Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation. Irritation Canada - Alberta OELs: Irritant Titanium dioxide (CAS 13463-67-7) Irritant Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause genetic defects. Carcinogenicity May cause cancer. ACGIH Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) A4 Not classifiable as a human carcinogen. Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen. SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. Siturium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen. Siture (CAS 100-42-5) Not classifiable as a human carcinogen. Siture (CAS 100-42-5) Not classifiable as a human carcinogen. Siture (CAS 100-42-5) Not classifiable as a human carcinogen. Siture (CAS 100-42-5) Not classifiable as a human carcinogen. Siture (CAS 100-42-5)				
Serious eye damage/eye Irritation Causes serious eye irritation. Irritation Canada - Alberta OELs: Irritant Titanium dioxide (CAS 13463-67-7) Irritant Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause genetic defects. Carcinogenicity May cause genetic defects. Carcinogenicity May cause genetic defects. Carcinogenicity StlLCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) SI	LD50	Rat	1 g/kg	
irritation Respiratory or skin sensitisation Canada - Alberta OELs: Irritant Titanium dioxide (CAS 13463-67-7) Irritant Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause genetic defects. Carcinogenicity May cause cancer. ACGIH Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) SILICA, CRYSTALLINE, QUARTZ (CAS 112926-00-8) SILICA, CRYSTALLINE, QUARTZ (CAS 11	Skin corrosion/irritation			
Canada - Alberta OELs: IrritantuTitanium dioxide (CAS 13463-67-7)IrritantRespiratory sensitisationDue to partial or complete lack of data the classification is not possible.Skin sensitisationMay cause an allergic skin reaction.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.ACGIH CarcinogensSILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)A2 Suspected human carcinogen.Styrene (CAS 100-42-5)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Canada - Manitoba OELs: carcinogenicitySuspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Canada - Quebee OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Styrene (CAS 100-42-5)Suspected human carcinogen.Read - Quebee OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Styrene (CAS 100-42-5)Detected carcinogenic effect in humans.Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans.Stilica, amorphous, furmed (CAS 112926-00-8)SIN tclassifiable as to carcinogenicity to humans.Stilica, amorphous, furmed (CAS 112926-00-8)SIN tclassifiable as to carcinogenicity to humans. <td></td> <td>Causes serious eye irritation.</td> <td></td>		Causes serious eye irritation.		
Titanium dioxide (CAS 13463-67-7) Irritant Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause genetic defects. Carcinogenicity May cause cancer. ACGIH Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) A4 Not classifiable as a human carcinogen. Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen. Canada - Alberta OELs: Carcinogen category SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. Canada - Manitoba OELs: carcinogenicity Suspected human carcinogen. Not classifiable as a human carcinogen. Styrene (CAS 100-42-5) Not classifiable as a human carcinogen. Not classifiable as a human carcinogen. Styrene (CAS 100-42-5) Not classifiable as a human carcinogen. Not classifiable as a human carcinogen. Styrene (CAS 100-42-5) Not classifiable as a human carcinogen. Not classifiable as a human carcinogen. Styrene (CAS 100-42-5) Not classifiable as a human carcinogen. Suspected carcinogenic effect in humans. Styrene (CAS 100-42-5) Suspected carcinogenic effect in humans. Suspected carcin	Respiratory or skin sensitisation	n		
Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.Skin sensitisationMay cause an allergic skin reaction.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.ACGIH CarcinogensA2 Suspected human carcinogen.SLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen.At Not classifiable as a human carcinogen.A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcimogen categorySLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) SLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.SLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.SLICA, CRYSTALLINE, OUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.Silica, amorphous, fumed (CAS 112926-00-8) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of Carcinogenic Stilica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. <td>Canada - Alberta OELs: Irrit</td> <td>ant</td> <td></td>	Canada - Alberta OELs: Irrit	ant		
Skin sensitisationMay cause an allergic skin reaction.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.ACGIH CarcinogensSILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen. A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Canada - Manitoba OELs: carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen. Not classifiable as a human carcinogen.Canada - Manitoba OELs: carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Sityrene (CAS 100-42-5)Suspected human carcinogen. Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.Canada - Quebeo OELs: carcinogen categorySuspected carcinogenic effect in humans. Detected carcinogenic effect in humans. Detected carcinogenic effect in animals.HARC Monographs. Overall Evaluation of CarcinogenicitySuspected carcinogenic effect in animals.IIARC Monographs. Overall Evaluation of CarcinogenicitySilica, amorphous, fumed (CAS 112926-00-8) SiliCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) SiliCA, CRYSTALLINE, QUARTZ (CAS 1480	Titanium dioxide (CAS 13	3463-67-7)	Irritant	
Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.ACGIH CarcinogensSILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen. A4 Not classifiable as a human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen category SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.Canada - Manitoba OELs: carcinogenicitySuspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected human carcinogen.Canada - Quebec OELs: Carcinogen categorySulcA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of Carcinogenicity Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. Styrene (CAS 100-42-5)3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. Styrene (CAS 10463-67-7)2A Probably carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogenic Styrene (CAS 100-42-5)Stinoan Toxicology Program (NTP) Report on Carcinogenic to humans. 3 Nort on Be Human Carcinogen. Be vosably carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogenic to humans. Styrene (CAS 10	Respiratory sensitisation	Due to partial or complete lac	k of data the classification is not possible.	
CarcinogenicityMay cause cancer.ACGIH CarcinogensSILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)A2 Suspected human carcinogen.Styrene (CAS 100-42-5)A4 Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySilica, amorphous, fumed (CAS 112926-00-8)Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-5)2A Probably carcinogenic to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-62-5)2A Probably carcinogenic to humans.Silica, Amorphous, fumed (CAS 112945-62-5)2A Probably carcinogenic to humans.Silica, CRYSTAL	Skin sensitisation	May cause an allergic skin rea	action.	
ACGIH CarcinogensA2 Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen.Titanium dioxide (CAS 13463-67-7)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen category SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Canada - Manitoba OELs: carcinogenicitySulICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans.Detected carcinogenic effect in humans.Detected carcinogenic effect in humans.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)2 Probably carcinogenic to humans. <td>Germ cell mutagenicity</td> <td>May cause genetic defects.</td> <td></td>	Germ cell mutagenicity	May cause genetic defects.		
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)A2 Suspected human carcinogen.Titanium dioxide (CAS 13463-67-7)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen categorySULICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categorySuspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySuspected carcinogenic effect in animals.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)2 Probably carcinogenic to	Carcinogenicity	May cause cancer.		
Styrene (CAS 100-42-5)A4 Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)A4 Not classifiable as a human carcinogen.Canada - Alberta OELs: Carcinogen categorySULICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Canada - Manitoba OELs: carcinogenicitySULICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categoryNot classifiable as a human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySilica, amorphous, fumed (CAS 112926-00-8)Silica, amorphous, fumed (CAS 112926-00-8)S Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)S Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)Carcinogenic to humans.Silica, amorphous, fumed (CAS 112926-00-8)S Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Carcinogenic to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Carcinogenic to humans.Styrene (CAS 100-42-5)S Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)S Probably carcinogenic to humans.Styrene (CAS 100-42-5)SA Probably carcinogenic to humans.				
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Canada - Manitoba OELs: carcinogenicitySuspected human carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Suspected human carcinogen.Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans.Styrene (CAS 100-42-5)Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of Carcinogenicity3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Sityrene (CAS 100-42-5)2A Probably carcinogenic to humans.Sityrene (CAS 100-42-5)2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on CarciogensKnown To Be Human Carcinogen.SitliCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.SitliCA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.	Styrene (CAS 100-42-5) Titanium dioxide (CAS 13	3463-67-7)	A4 Not classifiable as a human carcinogen.	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) Titanium dioxide (CAS 13463-67-7)Suspected human carcinogen. Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen category SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of Carcinogenicity Silica, amorphous, fumed (CAS 112926-00-8) Silica, amorphous, fumed (CAS 112945-52-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Silica, amorphous, fumed (CAS 112945-52-5) Silica, amorphous, fumed (CAS 112945-52-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) Titanium dioxide (CAS 13463-67-7)3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans. 2 A Probably carcinogenic to humans. 2 B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.			Suspected human carcinogen.	
Styrene (CAS 100-42-5)Not classifiable as a human carcinogen.Titanium dioxide (CAS 13463-67-7)Not classifiable as a human carcinogen.Canada - Quebec OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySilica, amorphous, fumed (CAS 112926-00-8) Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. Silica, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)2A Probably carcinogenic to humans. 2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.			Suspected human carcinogen.	
Canada - Quebec OELs: Carcinogen categorySILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySilica, amorphous, fumed (CAS 112926-00-8) Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-52-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)3 Not classifiable as to carcinogenicity to humans. 2 A Probably carcinogenic to humans. 2 B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	Styrene (CAS 100-42-5)		Not classifiable as a human carcinogen.	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Suspected carcinogenic effect in humans. Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicitySuspected carcinogenic effect in animals.Silica, amorphous, fumed (CAS 112926-00-8) Silica, amorphous, fumed (CAS 112945-52-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)2A Probably carcinogenic to humans. 2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5)Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.		,	Not classifiable as a human carcinogen.	
Styrene (CAS 100-42-5)Detected carcinogenic effect in animals.IARC Monographs. Overall Evaluation of CarcinogenicityDetected carcinogenic effect in animals.Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Styrene (CAS 100-42-5)2A Probably carcinogenic to humans.Titanium dioxide (CAS 13463-67-7)2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on CarcinogensKnown To Be Human Carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.			Supported environments offset in humans	
Silica, amorphous, fumed (CAS 112926-00-8)3 Not classifiable as to carcinogenicity to humans.Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Styrene (CAS 100-42-5)2A Probably carcinogenic to humans.Titanium dioxide (CAS 13463-67-7)2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on CarcinogensKnown To Be Human Carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.	Styrene (CAS 100-42-5)		Detected carcinogenic effect in animals.	
Silica, amorphous, fumed (CAS 112945-52-5)3 Not classifiable as to carcinogenicity to humans.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)1 Carcinogenic to humans.Styrene (CAS 100-42-5)2A Probably carcinogenic to humans.Titanium dioxide (CAS 13463-67-7)2B Possibly carcinogenic to humans.US. National Toxicology Program (NTP) Report on CarcinogensSILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.				
US. National Toxicology Program (NTP) Report on Carcinogens SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Styrene (CAS 100-42-5) Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	Silica, amorphous, fumed (CAS 112945-52-5) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)		3 Not classifiable as to carcinogenicity to humans.1 Carcinogenic to humans.	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)Known To Be Human Carcinogen.Styrene (CAS 100-42-5)Reasonably Anticipated to be a Human Carcinogen.	Titanium dioxide (CAS 13		2B Possibly carcinogenic to humans.	
Styrene (CAS 100-42-5) Reasonably Anticipated to be a Human Carcinogen.			-	
Reproductive toxicity Suspected of damaging fertility or the unborn child.	Styrene (CAS 100-42-5)		Reasonably Anticipated to be a Human Carcinogen.	
	Reproductive toxicity	Suspected of damaging fertili	ty or the unborn child.	

Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	May be fatal if swallowed and enters airways.	
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.	
12. Ecological information	1	
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.	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential		
Partition coefficient n-octan Styrene	ol / water (log Kow) 2.95	
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 consideratio	ns	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

TDG	
UN number	UN1866
UN proper shipping name	RESIN SOLUTION, flammable
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	I
Environmental hazards	Not available.
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN1866
UN proper shipping name	Resin solution flammable
Transport hazard class(es)	
Class	3
Class	5
Subsidiary risk	-
	-
Subsidiary risk	-
Subsidiary risk Packing group Environmental hazards ERG Code	- II No. 3L
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for use	- II No.
Subsidiary risk Packing group Environmental hazards ERG Code	- II No. 3L
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for use Other information Passenger and cargo	- II No. 3L
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for user Other information Passenger and cargo aircraft	I No. 3L Read safety instructions, SDS and emergency procedures before handling. Allowed with restrictions.
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for user Other information Passenger and cargo aircraft Cargo aircraft only	I No. 3L Read safety instructions, SDS and emergency procedures before handling.
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for user Other information Passenger and cargo aircraft	I No. 3L Read safety instructions, SDS and emergency procedures before handling. Allowed with restrictions.
Subsidiary risk Packing group Environmental hazards ERG Code Special precautions for user Other information Passenger and cargo aircraft Cargo aircraft only	I No. 3L Read safety instructions, SDS and emergency procedures before handling. Allowed with restrictions.

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S-E</u>
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and the IBC Code	
IATA; IMDG; TDG	



15. Regulatory	information
----------------	-------------

Canadian regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.	
Controlled Drugs and Subst	ances Act	
Not regulated.		
Export Control List (CEPA 1	999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed. Precursor Control Regulation	ne	
Not regulated.	112	
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)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by the e components of the product are not listed or exempt from listing on the inventory	

16. Other information

Issue date	07-July-2019
Revision date	30-April-2020
Version No.	02
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.