

Version 13.2	Revision Date: 05/10/2023		DS Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010	
SECTIO	N 1. IDENTIFICATION				
Pro	Product name		BOND AND SEAI mL	L, Elastic polyurethane adhesive, White, 300	
Pro	duct code	:	890.1001		
Oth	er means of identification	:	No data available		
Ма	nufacturer or supplier's	deta	ails		
Cor	npany name of supplier	:	Würth Canada Lir	nited	
Ado	Address		345 Hanlon Creek Blvd GUELPH, ON N1C 0A1		
Tel	ephone	:	+1 (905) 564 6225		
Tel	efax	:	+1 (905) 564 367	1	
Em	ergency telephone	:	CHEMTREC (24/ Transport related CANUTEC (24/7) Urgences impliqu exposition: CHEMTREC (24/ Urgences liées au	: 1-613-996-6666 or * 666 (cell) ant un déversement, incendie, explosion ou 7): 1-800-424-9300	
E-n	nail address	:	prodsafe@wurth.	ca	
	commended use of the c	hen		ons on use	
Red	commended use	:	Adhesives Sealant		

SECTION 2. HAZARDS IDENTIFICATION

Flammable liquids	:	Category 4
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Carcinogenicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (Central nervous system)



Version 13.2	Revision Date: 05/10/2023		9S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010		
	Specific target organ toxicity - repeated exposure		Category 2 (Audi	tory system)		
GHS label elements Hazard pictograms		:				
Signa	al Word	:	Danger			
Haza	Hazard Statements		 H227 Combustible liquid. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure. H373 May cause damage to organs (Auditory system) throug prolonged or repeated exposure. 			
Preca	Precautionary Statements		P202 Do not hand and understood. P210 Keep away and other ignition P260 Do not brea P264 Wash skin P270 Do not eat, P272 Contaminant the workplace.	thoroughly after handling. drink or smoke when using this product. ted work clothing should not be allowed out of ctive gloves, protective clothing, eye protection on.		
			P304 + P340 IF I keep comfortable P308 + P313 IF e P333 + P313 If sl tion. P342 + P311 If ex tor.	ON SKIN: Wash with plenty of water. NHALED: Remove person to fresh air and for breathing. exposed or concerned: Get medical attention. kin irritation or rash occurs: Get medical atten- xperiencing respiratory symptoms: Call a doc- te off contaminated clothing and wash it before		
			Storage: P405 Store locke	d up.		
			Disposal:			



Version	Revision Date:	SDS Number:	Date of last issue: 11/24/2022
13.2	05/10/2023	10769641-00011	Date of first issue: 03/01/2010

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Limestone	Calcium car- bonate	1317-65-3	>= 10 - < 30 *
Polyvinyl chloride	Ethene, chloro-, homopolymer	9002-86-2	>= 5 - < 10 *
Titanium dioxide; [in powder form containing 1 % or more of parti- cles with aerodynamic diameter ≤ 10 µm]	Titanic anhy- dride	13463-67-7	>= 1 - < 5 *
Xylene	Benzene, dime- thyl-	1330-20-7	>= 1 - < 5 *
Hydrocarbons, C9- C12, n-alkanes, isoal- kanes, cyclics, aromat- ics (2-25%)	No data availa- ble	64742-82-1	>= 1 - < 5 *
4,4'-Diphenylmethane diisocyanate	Benzene, 1,1'- methylenebis[4- isocyanato-	101-68-8	>= 0.1 - < 1 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version 13.2	Revision Date: 05/10/2023	SDS Numb 10769641-0					
		Thorou	ghly clean shoes before reuse.				
In	In case of eye contact		: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
lf s	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
an	Most important symptoms and effects, both acute and delayed		use an allergic skin reaction. use allergy or asthma symptoms or breathing difficul- haled. eted of causing cancer. s damage to organs through prolonged or repeated re. atory symptoms, including pulmonary edema, may be d. ive exposure may aggravate preexisting asthma and espiratory disorders (e.g. emphysema, bronchitis, reac- ways dysfunction syndrome).				
Pro	otection of first-aiders	and use	d responders should pay attention to self-protection, e the recommended personal protective equipment ne potential for exposure exists (see section 8).				
Nc	otes to physician	: Treat sy	ymptomatically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray in large fire situations
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Nitrogen oxides (NOx) Chlorine compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.



Versior 13.2		Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010	
				Remove undamaç so. Evacuate area.	ged containers from fire area if it is safe to do	
	Special protective equipment for fire-fighters			In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SECTI	ON 6.	ACCIDENTAL RELE	ASE	MEASURES		
tiv	Personal precautions, protec- tive equipment and emer- gency procedures		:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).		
Er	Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up		:	Suppress (knock of jet. For large spills, pr ment to keep mate pumped, store red Clean up remainin bent. After approximate do not seal, due to Local or national r sal of this materia ployed in the clean which regulations Sections 13 and 1	absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. In materials from spill with suitable absor- ly one hour, transfer to waste container and o evolution of carbon dioxide. regulations may apply to releases and dispo- l, as well as those materials and items em- nup of releases. You will need to determine	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapors. Do not swallow. Avoid contact with eyes.



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Versio 13.2		Revision Date: 05/10/2023		9S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
				Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposu sessment Keep container tightly closed. Keep away from water. Protect from moisture. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory di should consult their physician regarding working with r tory irritants or sensitizers. Keep away from heat, hot surfaces, sparks, open flame other ignition sources. No smoking. Take precautionary measures against static discharge Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize releas environment.	
С	Conditior	ns for safe storage	:	Store locked up. Protect from mois Keep in a cool, we Store in accordan	abeled containers. ture. ell-ventilated place. ce with the particular national regulations. neat and sources of ignition.
Μ	laterials	to avoid	:	Strong oxidizing a	stances and mixtures
S	itorage	period	:	12 Months	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Limestone	1317-65-3	TWA	10 mg/m ³	CA AB OEL
		TWAEV (to-	10 mg/m ³	CA QC OEL
		tal dust)		
		TWA (Total	10 mg/m ³	CA BC OEL
		dust)		
		TWA (respir-	3 mg/m ³	CA BC OEL
		able dust		
		fraction)		
		STEL	20 mg/m ³	CA BC OEL
Polyvinyl chloride	9002-86-2	TWA (Res- pirable)	1 mg/m ³	CA BC OEL
		TWA (Respi-	1 mg/m ³	ACGIH



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

sion 2		DS Number: 0769641-00011		t issue: 11/24/2022 t issue: 03/01/2010	
			rable particu- late matter)		
form co particle	m dioxide; [in powder ontaining 1 % or more of s with aerodynamic er \leq 10 µm]	13463-67-7	TWA	10 mg/m ³	CA AB OE
			TWA (Total dust)	10 mg/m³	CA BC OE
			TWA (respir- able dust fraction)	3 mg/m³	CA BC OE
			TWAEV (to- tal dust)	10 mg/m³	CA QC OE
			TWA (Respi- rable particu- late matter)	2.5 mg/m ³ (Titanium dioxide)	ACGIH
Xylene		1330-20-7	TWA	100 ppm 434 mg/m³	CA AB OE
			STEL	150 ppm 651 mg/m³	CA AB OE
			TWAEV	100 ppm 434 mg/m³	CA QC OE
			STEV	150 ppm 651 mg/m³	CA QC OE
			TWA	100 ppm	CA BC OE
			STEL	150 ppm	CA BC OE
			TWA	20 ppm	ACGIH
4,4'-Dip anate	phenylmethane diisocy-	101-68-8	TWA	0.005 ppm	CA BC OE
			С	0.01 ppm	CA BC OE
			TWA	0.005 ppm	CA ON OE
			С	0.02 ppm	CA ON OE
			TWAEV	0.005 ppm 0.051 mg/m³	CA QC OE
			TWA	0.005 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Xylene	1330-20-7	Methyl- hippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g cre- atinine	ACGIH BEI

Engineering measures : Proce

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version 13.2	Revision Date: 05/10/2023		9S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010			
	onal protective equipr	ment	w 1				
Resp	piratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the re- commended guidelines, use respiratory protection.				
Fi	ilter type	:	Combined particu	lates and organic vapor type			
Hand	d protection						
В	laterial reak through time love thickness	:	Fluorinated rubber > 30 min 0.4 mm				
R	emarks	:	: Choose gloves to protect hands against chemicals depend on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to cl micals of the aforementioned protective gloves with the gl manufacturer. Wash hands before breaks and at the end workday.				
Eyeı	protection	:	Wear the followin Safety glasses	g personal protective equipment:			
Skin	and body protection	:	 Select appropriate protective clothing based on chen resistance data and an assessment of the local expo potential. Wear the following personal protective equipment: If assessment demonstrates that there is a risk of ex atmospheres or flash fires, use flame retardant antist protective clothing. Skin contact must be avoided by using impervious pr clothing (gloves, aprons, boots, etc). 				
Hygid	ene measures	:	eye flushing syste king place. When using do no Contaminated wo workplace.	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Color	:	white

Odor : characteristic



Ver: 13.2		Revision Date: 05/10/2023		S Number: 69641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
	Odor T	hreshold	:	No data available	
	рН		:	substance/mixtur	e is non-soluble (in water)
	Melting	point/freezing point	:	No data available	2
	Initial b range	oiling point and boiling	:	No data available)
	Flash p	oint	:	76 °C	
	Evapor	ation rate	:	No data available	2
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Density	,	:	ca. 1.26 g/cm ³ (2	0 °C)
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	> 20.5 mm²/s (40) °C)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version 13.2	Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010			
SECTION	10. STABILITY AND RE	EAC	ΤΙVITY				
React	ivity	:	Not classified as	s a reactivity hazard.			
Chem	ical stability	:	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions. Polymerizes at high temperatures with evolution of carbon dioxide.				
Possibility of hazardous reac- tions		 Combustible liquid. Vapors may form explosive mixture with air. Isocyanates react with many materials and the rate of real increases with temperature as well as increased contact; se reactions can become violent. Contact is increased by ring or if the other material mixes with the isocyanate. Exothermic reaction with acids, amines and alcohols Reacts with water to form carbon dioxide and heat Isocyanates are not soluble in water and sink to the botto but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Hazardous decomposition products will be formed upon of tact with water or humid air. 					
Condi	tions to avoid	:	Exposure to mo Heat, flames an				
Incom	patible materials	:	Oxidizing agent Acids Bases Water Alcohols Amines Ammonia Aluminum Zinc Brass Tin Copper Galvanized met Humid air				
Hazar produ	dous decomposition cts	:	No hazardous c	lecomposition products are known.			

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact



rsion 2	Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010			
	e toxicity assified based on ava	ailable	information.				
<u>Produ</u>	uct:						
Acute oral toxicity		:	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method				
Acute inhalation toxicity		:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method				
Acute	dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method				
<u>Comp</u>	oonents:						
Limes	stone:						
Acute	oral toxicity	:	Assessment: Thicity	,000 mg/kg Test Guideline 420 ne substance or mixture has no acute oral tox- d on data from similar materials			
Acute	inhalation toxicity	:	 LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inha tion toxicity Remarks: Based on data from similar materials 				
Acute	dermal toxicity	:	Assessment: Th toxicity	,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal d on data from similar materials			
	ium dioxide; [in pow ∋ter ≤ 10 μm]:	/der fo	rm containing 1	% or more of particles with aerodynamic			
	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity				
Xylen	e:						
-	oral toxicity	:	LD50 (Rat): 3,5 Method: Directiv	23 mg/kg ve 67/548/EEC, Annex V, B.1.			



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version 13.2	Revision Date: 05/10/2023	SDS Number: 10769641-0001	Date of last issue: 11/24/2022 1 Date of first issue: 03/01/2010					
Acute	e inhalation toxicity	Exposure tir	: LC50 (Rat): 27.571 mg/l Exposure time: 4 h Test atmosphere: vapor					
Acute	e dermal toxicity	: LD50 (Rabb	LD50 (Rabbit): > 4,200 mg/kg					
Hydr	ocarbons, C9-C12, n-		anes, isoalkanes, cyclics, aromatics (2-25%):					
Acute	e oral toxicity	: LD50 (Rat):	> 15,000 mg/kg					
Acute	e inhalation toxicity	: LC50 (Rat): Exposure tii Test atmosp						
Acute	e dermal toxicity	: LD50 (Rat):	> 3,400 mg/kg					
4,4'-I	Diphenylmethane diis	ocyanate:						
Acute	e oral toxicity	Assessmen icity	 LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral tox icity Remarks: Based on data from similar materials 					
Acute	e inhalation toxicity							
Acute	e dermal toxicity		it): > 5,000 mg/kg ased on data from similar materials					
Not c	corrosion/irritation	lable information.						
<u>Com</u>	ponents:							
	stone:	5.1.7						
Spec Meth		: Rabbit · OFCD Test	Guideline 404					
Resu		: No skin irrita						
Rem	arks	: Based on da	ata from similar materials					
	nium dioxide; [in powo neter ≤ 10 μm]:	ler form containii	ng 1 % or more of particles with aerodynamic					
Spec	ies	: Rabbit						
Resu		: No skin irrita	ation					
Xyle	ne:							
Spec		: Rabbit						
Resu	llt	: Skin irritatio	n					

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):



2	Revision Date: 05/10/2023	SDS Number:Date of last issue: 11/24/202210769641-00011Date of first issue: 03/01/2010			
Specie	s	: Rabbit			
Metho		: OECD Test Guideline 404			
Result		: No skin irritation			
Assessment		: Repeated exposure may cause skin dryness or cracking			
4,4'-Di	phenylmethane diis	ocyanate:			
Specie	cies : Rabbit				
Metho	d	: OECD Test Guideline 404			
Result		: Skin irritation			
Remar	rks	: Based on data from similar materials			
Seriou	ıs eye damage/eye i	rritation			
Not cla	assified based on ava	ilable information.			
<u>Comp</u>	<u>onents:</u>				
Limes					
Specie		: Rabbit			
Result		: No eye irritation			
Method : OECD Test Guideline 405					
Remar	rks	: Based on data from similar materials			
	um dioxide; [in pow ter ≤ 10 µm]:	der form containing 1 % or more of particles with aerodyna			
Specie	S	: Rabbit			
Result		: No eye irritation			
Xylene	9:				
Specie	es	: Rabbit			
Result		: Irritation to eyes, reversing within 21 days			
Hydro	carbons, C9-C12, n·	alkanes, isoalkanes, cyclics, aromatics (2-25%):			
Specie		: Rabbit			
Result		: No eye irritation			
Metho		: OECD Test Guideline 405			
4.4'-Di	phenylmethane diis	ocvanate:			
Result		: Irritation to eyes, reversing within 7 days			
Remar		: Based on national or regional regulation.			
Remai					
Respi	ratory or skin sensit	ization			
	ensitization				
May ca	ause an allergic skin	eaction.			
Respi	ratory sensitization				



2	Revision Date: 05/10/2023	SDS Number:Date of last issue: 11/24/202210769641-00011Date of first issue: 03/01/2010
<u>Com</u>	ponents:	
Lime	stone:	
Test	Tvpe	: Local lymph node assay (LLNA)
Routes of exposure		: Skin contact
Speci		: Mouse
Metho	bd	: OECD Test Guideline 429
Resu		: negative
Rema	arks	: Based on data from similar materials
	ium dioxide; [in pov eter ≤ 10 µm]:	wder form containing 1 % or more of particles with aerodyna
Test		: Local lymph node assay (LLNA)
	es of exposure	: Skin contact
Speci		: Mouse
Resu		: negative
		C C
Xyler		
Test		: Local lymph node assay (LLNA)
	es of exposure	: Skin contact
Speci		: Mouse
Resu	π	: negative
Hydro	ocarbons, C9-C12, r	n-alkanes, isoalkanes, cyclics, aromatics (2-25%):
Test ⁻	Туре	: Maximization Test
Route	es of exposure	: Skin contact
Speci		: Guinea pig
Metho		: OECD Test Guideline 406
Resu	lt	: negative
Resu	^{lt} Diphenylmethane dii	
Resul 4,4'- [Diphenylmethane dii	
Resul 4,4'-E Test ⁻	Diphenylmethane dii Type	isocyanate: : Buehler Test
Resul 4,4'-E Test ⁻	Diphenylmethane dii Type es of exposure	isocyanate:
Resul 4,4'-E Test ⁻ Route	Diphenylmethane dii Type es of exposure ies	isocyanate: : Buehler Test : Skin contact
Resul 4,4'-E Test ⁻ Route Speci Resul	Diphenylmethane dii Type es of exposure ies	isocyanate: : Buehler Test : Skin contact : Guinea pig
Resul 4,4'-E Test Route Speci Resul Asses	Diphenylmethane dii Type es of exposure ies It ssment es of exposure	 isocyanate: Buehler Test Skin contact Guinea pig positive Probability or evidence of skin sensitization in humans Inhalation
Resul 4,4'-C Test ⁻ Route Speci Resul Asses Route Speci	Diphenylmethane dii Type es of exposure ies lt ssment es of exposure ies	 isocyanate: Buehler Test Skin contact Guinea pig positive Probability or evidence of skin sensitization in humans Inhalation Rat
Resu 4,4'-C Test Route Speci Resu Route Speci Resu	Diphenylmethane dii Type es of exposure ies It ssment es of exposure ies It	 isocyanate: Buehler Test Skin contact Guinea pig positive Probability or evidence of skin sensitization in humans Inhalation Rat positive
Resul 4,4'-C Test ⁻ Route Speci Resul Asses Route Speci	Diphenylmethane dii Type es of exposure ies It ssment es of exposure ies It	 isocyanate: Buehler Test Skin contact Guinea pig positive Probability or evidence of skin sensitization in humans Inhalation Rat

Germ cell mutagenicity

Not classified based on available information.



ersion 3.2	Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
<u>Com</u>	ponents:			
Lime	estone:			
Gend	Genotoxicity in vitro		Method: OECD Result: negative	erial reverse mutation assay (AMES) Fest Guideline 471 I on data from similar materials
			Method: OECD	mosome aberration test in vitro Fest Guideline 473
			Result: negative Remarks: Based	on data from similar materials
			Method: OECD	ro mammalian cell gene mutation test Test Guideline 476
			Result: negative Remarks: Based	on data from similar materials
	nium dioxide; [in pow neter ≤ 10 μm]:	vder fo	rm containing 1	% or more of particles with aerodynamic
Geno	otoxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
Geno	otoxicity in vivo	:	Test Type: In viv Species: Mouse Result: negative	o micronucleus test
Xyle	ne:			
Geno	otoxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chro Result: negative	mosome aberration test in vitro
			Test Type: In vitr Result: negative	ro mammalian cell gene mutation test
			Test Type: In vitr malian cells Result: negative	ro sister chromatid exchange assay in mam-
Geno	otoxicity in vivo	:	Test Type: Rode Species: Mouse Application Rout Result: negative	
Hydr	ocarbons, C9-C12, n	n-alkan	es, isoalkanes, c	cyclics, aromatics (2-25%):
-	otoxicity in vitro	:		mosome aberration test in vitro
			Test Type: Bacte	erial reverse mutation assay (AMES)



Version 13.2	Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010	
			Result: negative		
Geno	otoxicity in vivo	:	cytogenetic assa Species: Mouse Application Rout Result: negative	e: Ingestion	
4,4'-	Diphenylmethane diiso	ocvan	ate:		
	otoxicity in vitro	:		erial reverse mutation assay (AMES)	
Geno	otoxicity in vivo	:	cytogenetic assa Species: Rat Application Rout	e: inhalation (dust/mist/fume) Test Guideline 474	
Carc	inogenicity				
	pected of causing cance	r.			
-	iponents:				
		lor for	m containing 4	% or more of perticles with sered memia	
	neter ≤ 10 μm]:	ler ior	in containing i	% or more of particles with aerodynamic	
Spec	cies	:	Rat		
	ication Route	:	inhalation (dust/	mist/fume)	
	sure time	:	2 Years		
Meth Resu		:	OECD Test Guid positive	deline 453	
Rest		:		or mode of action may not be relevant in hu-	
		•	mans.		
Carc ment	inogenicity - Assess- t	:	Limited evidence animals.	e of carcinogenicity in inhalation studies with	
Xyle	ne:				
Spec		:	Rat		
	ication Route	:	Ingestion		
	osure time	:	103 weeks		
Resu	ult	:	negative		
Hydr	rocarbons, C9-C12, n-a	alkane	es, isoalkanes, o	cyclics, aromatics (2-25%):	
Spec		:	Rat	-	
Appli	Application Route :		inhalation (vapor	r)	
	osure time	:	105 weeks		
Resu		:	negative		
Rem	aiks	:	based on data fi	rom similar materials	



Version 13.2	Revision Date: 05/10/2023		S Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
4,4'-D	iphenylmethane diiso	cyar	nate:	
	ation Route sure time t	:	Rat inhalation (dust/n 2 Years positive Based on data fr	nist/fume) om similar materials
Carcir ment	ogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies
-	oductive toxicity assified based on availa	able	information.	
Comp	onents:			
Limes	stone:			
Effects	s on fertility	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	bined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion Fest Guideline 422 on data from similar materials
Effects	s on fetal development	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	bined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion Fest Guideline 422 on data from similar materials
Xylen	е:			
-	s on fertility	:	Species: Rat	generation reproduction toxicity study e: inhalation (vapor)
Effects	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (vapor)
Hvdro	ocarbons. C9-C12. n-al	lkan	es. isoalkanes. c	yclics, aromatics (2-25%):
-	s on fertility	•	Test Type: One-o Species: Rat Application Route Result: negative	generation reproduction toxicity study e: inhalation (vapor) on data from similar materials
Effects	s on fetal development	:	Test Type: Embr Species: Rat	yo-fetal development



ersion .2	Revision Date: 05/10/2023	SDS Number: 10769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
		Application R Result: nega	toute: inhalation (vapor) tive
4,4'-D	iphenylmethane diiso	cyanate:	
Effects	s on fetal development	Species: Rat Application R Result: nega	coute: inhalation (dust/mist/fume)
	-single exposure assified based on availa	ble information.	
Comp	onents:		
Xylen	e:		
Asses	sment	: May cause re	espiratory irritation.
Hydro	ocarbons, C9-C12, n-al	kanes, isoalkane	s, cyclics, aromatics (2-25%):
Asses	sment	: May cause d	rowsiness or dizziness.
	sment	: May cause re	espiratory irritation.
Cause			stem) through prolonged or repeated exposure.) through prolonged or repeated exposure.
Comp	onents:		
Xylen	e:		
Targe	s of exposure t Organs sment		
Hydro	ocarbons, C9-C12, n-al	kanes, isoalkane	s, cyclics, aromatics (2-25%):
Targe	s of exposure t Organs sment	 Inhalation Central nervo Causes dam exposure. 	ous system age to organs through prolonged or repeated
4,4'-D	iphenylmethane diiso	cyanate:	
Route Targe	s of exposure t Organs sment	 inhalation (du Respiratory 1 Shown to pro 	



Version 13.2	Revision Date: 05/10/2023	SDS Number: 10769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
Repe	ated dose toxicity		
Comp	oonents:		
Limes	stone:		
Speci		: Rat	
NOAE		: > 300 mg/kg	
	ation Route	: Ingestion : 28 Days	
Metho		: OECD Test Gui	deline 422
Rema	rks		rom similar materials
	um dioxide; [in pow eter ≤ 10 µm]:	der form containing 1	% or more of particles with aerodynamic
Speci		: Rat	
NOAE		: 24,000 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 28 Days	
Speci	es	: Rat	
NOAE		: 10 mg/m ³	
	ation Route	: inhalation (dust/	mist/fume)
Expos	sure time	: 2 y	
Xylen			
Speci		: Rat	
LOAE	L ation Route	: > 0.2 - 1 mg/l : inhalation (vapo	r)
	sure time	: 13 Weeks	')
Rema		: Based on data f	rom similar materials
Speci	es	: Rat	
LÖAE		: 150 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 90 Days	
-			cyclics, aromatics (2-25%):
Specie		: Rat	
NOAE	:L ation Route	: 1,056 mg/kg : Ingestion	
	sure time	: 90 Days	
Expor			
Speci		: Rat	
NOAE		: 3.950 mg/l	
LOAE	L ation Route	: 7.400 mg/l : Inhalation	
	sure time	: 90 Days	
4.4'-D	iphenylmethane diis	socvanate:	
Speci		: Rat	
Specie			



Version	Revision Date:	-	DS Number:	Date of last issue: 11/24/2022
13.2	05/10/2023		0769641-00011	Date of first issue: 03/01/2010
	ation Route ure time	:	1 mg/m3 inhalation (dust/m 2 y Based on data fro	nist/fume) om similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Inhalation : Symptoms

: Symptoms: central nervous system effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Limestone:	
Toxicity to fish	LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	LL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	EL50 (Desmodesmus subspicatus (green algae)): > 14 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility. Based on data from similar materials



Versior 13.2	Revision Date: 05/10/2023			Date of last issue: 11/24/2022 Date of first issue: 03/01/2010	
			Exposure time: 72 Test substance: W Method: OECD Te	ater Accommodated Fraction st Guideline 201 ty at the limit of solubility.	
To	Toxicity to microorganisms		EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
	anium dioxide; [in powde ameter ≤ 10 μm]:	r fo	rm containing 1 %	or more of particles with aerodynamic	
	xicity to fish	:	LC50 (Oncorhynch Exposure time: 96 Method: OECD Te		
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia ma Exposure time: 48	agna (Water flea)): > 100 mg/l h	
	xicity to algae/aquatic ants	:	EC50 (Skeletonem Exposure time: 72	a costatum (marine diatom)): > 10,000 mg/l h	
Τc	xicity to microorganisms	:	EC50: > 1,000 mg/ Exposure time: 3 h Method: OECD Te		
Ху	lene:				
Tc	xicity to fish	:	LC50 (Oncorhynch Exposure time: 96	us mykiss (rainbow trout)): 13.5 mg/l h	
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 24 Method: OECD Te		
	xicity to algae/aquatic ants	:	EC50 (Skeletonem Exposure time: 72	a costatum (marine diatom)): 10 mg/l h	
To ici	xicity to fish (Chronic tox- y)	:	Exposure time: 35 Method: OECD Te	(zebra fish)): > 0.1 - < 1 mg/l d st Guideline 210 n data from similar materials	
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	Exposure time: 21 Method: OECD Te		
To	xicity to microorganisms	:	NOEC: > 100 mg/l Exposure time: 3 h		



/ersion 3.2	Revision Date: 05/10/2023		OS Number: 769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
				Test Guideline 209 I on data from similar materials
-	ocarbons, C9-C12, n-al ity to fish	kan :	LL50 (Oncorhyn Exposure time: S Test substance:	cyclics, aromatics (2-25%): chus mykiss (rainbow trout)): > 10 - 30 mg/l 96 h Water Accommodated Fraction Test Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Test substance:	nagna (Water flea)): > 10 - 22 mg/l 48 h Water Accommodated Fraction Test Guideline 202
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Test substance:	rchneriella subcapitata (green algae)): 4.1 72 h Water Accommodated Fraction Test Guideline 201
			mg/l Exposure time: 7 Test substance:	okirchneriella subcapitata (green algae)): 0.7 72 h Water Accommodated Fraction Test Guideline 201
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2 Test substance: Method: OECD	magna (Water flea)): 0.097 mg/l 21 d Water Accommodated Fraction Test Guideline 211 I on data from similar materials
4,4'-D) Diphenylmethane diisoo	cva	nate:	
	ity to fish	:	LC50 (Oryzias la Exposure time: 9	atipes (Orange-red killifish)): > 3,000 mg/l 96 h I on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 2	magna (Water flea)): 129.7 mg/l 24 h Fest Guideline 202
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD	esmus subspicatus (green algae)): > 1,640 72 h Test Guideline 201 I on data from similar materials
			Exposure time: 7 Method: OECD	esmus subspicatus (green algae)): 1,640 m 72 h Test Guideline 201 I on data from similar materials



Version 13.2	Revision Date: 05/10/2023		DS Number: Date of last issue: 11/24/2022 0769641-00011 Date of first issue: 03/01/2010	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD Te	
Toxicit	ty to microorganisms	:	Exposure time: 3 Method: OECD Te	h
Persis	stence and degradabili	ty		
<u>Comp</u>	onents:			
Xylen	e:			
-	gradability	:		> 70 %
-	carbons, C9-C12, n-all gradability	kan :	Result: Readily bi Biodegradation: 7 Exposure time: 31 Method: OECD Te	75.9 %
4,4'-Di	iphenylmethane diisoo	yar	nate:	
Biodeç	gradability	:	Result: Not readily Biodegradation: 0 Exposure time: 28 Method: OECD Te Remarks: Based of) % 3 d
Bioac	cumulative potential			
	onents:			
Xylen	e:			
Partitic	on coefficient: n- bl/water	:	log Pow: 3.16 Remarks: Calcula	tion
Hydro	carbons, C9-C12, n-all	kan	es, isoalkanes, cv	clics, aromatics (2-25%):
Partitic	on coefficient: n- bl/water	:	Pow: > 4	
4,4'-Di	iphenylmethane diisoo	yar	nate:	
	cumulation	:	Species: Cyprinus Bioconcentration f	
			23 / 26	



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version 13.2	Revision Date: 05/10/2023		DS Number: 0769641-00011	Date of last issue: 11/24/2022 Date of first issue: 03/01/2010
	on coefficient: n- ol/water	:	log Pow: 4.51	
	ity in soil ta available			
	adverse effects ta available			
SECTION	13. DISPOSAL CONS	IDEF	RATIONS	
Dispo	sal methods			
Waste	e from residues	:	Dispose of in acc	ordance with local regulations.
			Do not dispose o	f waste into sewer.
Conta	minated packaging	:	handling site for r Empty containers Do not pressurize pose such contai	s should be taken to an approved waste recycling or disposal. s retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources may explode and cause injury and/or death.

If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Volatile organic compounds	CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 -
(VOC) content	Guidelines for VOC in Consumer Products
	VOC content: 3.83 % / 48.3 g/l



Version	Revision Date:	SDS Number:	Date of last issue: 11/24/2022
13.2	05/10/2023	10769641-00011	Date of first issue: 03/01/2010

The ingredients of this product are reported in the following inventories:

DSL	:	All chemical substances in this product comply with the CEPA
		1999 and NSNR and are on or exempt from listing on the
		Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
ACGIH		USA. ACGIH Threshold Limit Values (TLV)			
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)			
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)			
CA BC OEL	:	Canada. British Columbia OEL			
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.			
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants			
ACGIH / TWA	:	8-hour, time-weighted average			
CA AB OEL / TWA		8-hour Occupational exposure limit			
CA AB OEL / STEL		15-minute occupational exposure limit			
CA BC OEL / TWA		8-hour time weighted average			
CA BC OEL / STEL	:	short-term exposure limit			
CA BC OEL / C	:	ceiling limit			
CA ON OEL / C	:	Ceiling Limit (C)			
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)			
CA QC OEL / TWAEV		Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term exposure value			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-



BOND AND SEAL, Elastic polyurethane adhesive, White, 300 mL

Version	Revision Date:	SDS Number:	Date of last issue: 11/24/2022
13.2	05/10/2023	10769641-00011	Date of first issue: 03/01/2010

ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	05/10/2023 mm/dd/yyyy

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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