according to the Hazardous Products Regulations



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Vers 4.0	sion	Revision Date: 12/18/2023	-	0S Number: 47124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
SEC	CTION 1	. IDENTIFICATION			
	Produc	t name	:	REPLAST EASY	30 SEC, Component B
	Produc	t code	:	893.50002B	
	Other r	neans of identification	:	No data available	
	Manufa	acturer or supplier's o	deta	iils	
	Compa	my name of supplier	:	Würth Canada Lir	nited
	Addres	S	:	345 Hanlon Creek GUELPH, ON N1	
	Teleph	one	:	+1 (905) 564 622	5
	Telefax	(:	+1 (905) 564 367	1
	Emerge	ency telephone	:	CHEMTREC (24/ Transport related	lving a spill, fire, explosion or exposure: 7): 1-800-424-9300 emergencies: : 1-613-996-6666 or * 666 (cell)
				exposition: CHEMTREC (24/ Urgences liées au	ant un déversement, incendie, explosion ou 7): 1-800-424-9300 1 transport: : 1-613-996-6666 ou * 666 (cellulaire)
	E-mail	address	:	prodsafe@wurth.c	ca
	Recom	nmended use of the c	hen		ons on use
	Recom	mended use	:	Adhesives	
	Restric	tions on use	:	Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Respiratory sensitization	:	Category 1
Skin sensitization	:	Sub-category 1

А

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Carc	inogenicity	: (Category 2	
	ific target organ toxicity gle exposure	: (Category 3	
	ific target organ toxicity eated exposure (Inhala-	: (Category 2 (Resp	iratory Tract)
GHS	label elements			
Haza	ard pictograms	:		!
Signa	al Word	: [Danger	
Haza	ard Statements	 	H319 Causes ser H332 Harmful if ir H334 May cause culties if inhaled. H335 May cause H351 Suspected H373 May cause	an allergic skin reaction. ious eye irritation.
Prec	autionary Statements	: ,	Prevention:	
		 	P201 Obtain spec P202 Do not hand and understood. P260 Do not brea P264 Wash skin t P271 Use only ou P272 Contaminat he workplace.	
		I	Response:	
		 	P304 + P340 + P3 and keep comfort unwell. P305 + P351 + P3 or several minute o do. Continue rii P308 + P313 IF e	ON SKIN: Wash with plenty of water. 312 IF INHALED: Remove person to fresh air able for breathing. Call a doctor if you feel 338 IF IN EYES: Rinse cautiously with water as. Remove contact lenses, if present and easy nsing. xposed or concerned: Get medical attention. tin irritation or rash occurs: Get medical atten-

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		P342 + P311 If tor.	f eye irritation persists: Get medical attention. f experiencing respiratory symptoms: Call a doc- rake off contaminated clothing and wash it before
		Storage: P403 + P233 S tightly closed. P405 Store loc	Store in a well-ventilated place. Keep container ked up.
		Disposal: P501 Dispose	of contents and container to an approved waste

Other hazards

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
4,4'-Diphenylmethane diisocyanate	Benzene, 1,1'- methylenebis[4- isocyanato-	101-68-8	>= 10 - < 30 *
Diphenylmethane diisocyanate, isomers and homologues	Polymethylene polyphenyl poly- isocyanate	9016-87-9	>= 10 - < 30 *
Talc	Talc (Mg3H2(SiO3)4)	14807-96-6	>= 10 - < 30 *
Diphenylmethane 2,4'- Diisocyanate	o-(p- isocyanatoben- zyl)phenyl iso- cyanate	5873-54-1	>= 5 - < 10 *
2,2'-Methylenediphenyl diisocyanate	Benzene, 1,1'- methylenebis[2- isocyanato-	2536-05-2	>= 1 - < 5 *
Silicon dioxide	Silica	7631-86-9	>= 1 - < 5 *
Hydroxyalkanoic acid, compd. with aminohet- erocycle polymer with hydroxyalkanoic acid, alkyltriamine, lactone and lactone	Octadecanoic acid, 12- hydroxy- ,compd. with aziridine poly- mer with N1-(2- aminoethyl)-1,2- ethanediamine, 12-	1309457-61-1	>= 1 - < 5 *

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rsion)	Revision Date: 12/18/2023	SDS Number: 5247124-00006		Date of last issue: 11/10/2022 Date of first issue: 11/04/2019	
		hydroxyoctade- canoic acid,			
4- Isocya nyltoli	anatosulpho- uene	Benzenesulfonyl isocyanate, 4- methyl-	4083-64-1	>= 0.1 - < 1 *	
diisoo mers,	vlenediphenyl cyanate, oligo- , reaction prod- with 2-ethylhexan-	Isocyanic acid, polymethylene- polyphenylene ester, 2-ethyl-1- hexanol-blocked	147993-65-	5 >= 0.1 - < 1 *	
Tribut	tyl phosphate	Phosphoric acid tributyl ester	126-73-8	>= 0.1 - < 1 *	
Tosyl	chloride	Benzenesulfonyl chloride, 4- methyl-	98-59-9	>= 0.1 - < 1 *	

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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of causing cancer.

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		exposure if Respiratory delayed. Excessive e other respira	damage to organs through prolonged or repeated inhaled. symptoms, including pulmonary edema, may be exposure may aggravate preexisting asthma and atory disorders (e.g. emphysema, bronchitis, reac- dysfunction syndrome).
Prot	ection of first-aiders	and use the	ponders should pay attention to self-protection, recommended personal protective equipment otential for exposure exists (see section 8).
Note	es to physician	: Treat sympt	omatically 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	:	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	:	Hydrogen cyanide (hydrocyanic acid) Isocyanates Carbon oxides Nitrogen oxides (NOx) Cyanides
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. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.

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Meth	ods and materials for inment and cleaning up	 Prevent furthe Prevent sprea oil barriers). Retain and dis Local authoriti cannot be con Soak up with i For large spills ment to keep r pumped, store Clean up rema bent. After approxim do not seal, du Local or natior sal of this matu ployed in the o which regulation Sections 13 and 	r leakage or spillage if safe to do so. ding over a wide area (e.g., by containment or spose of contaminated wash water. es should be advised if significant spillages

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 mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- 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 disease, should consult their physician regarding working with respira- tory irritants or sensitizers. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage :	Keep in properly labeled containers. Store locked up. Protect from moisture. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

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Mate	rials to avoid	: Do not store	with the following product types:

Gases

Strong oxidizing agents

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
4,4'-Diphenylmethane diisocy- anate	101-68-8	TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWAEV	0.005 ppm 0.051 mg/m³	CA QC OEL
		TWA	0.005 ppm	ACGIH
Diphenylmethane diisocyana- te, isomers and homologues	9016-87-9	TWA	0.005 ppm 0.07 mg/m³	CA AB OEL
		TWAEV	0.005 ppm 0.051 mg/m ³	CA QC OEL
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	ACGIH
Talc	14807-96-6	TWAEV (respirable dust)	2 mg/m³	CA QC OEL
		TWA (Res- pirable par- ticulates)	2 mg/m³	CA AB OEL
		TWA (Res- pirable)	2 mg/m ³	CA BC OEL
		TWA	2 fibres per cubic centimeter	CA ON OEL
		TWA (Res- pirable frac- tion)	2 mg/m³	CA ON OEL
		TWA (Respi- rable particu- late matter)	2 mg/m³	ACGIH
Diphenylmethane 2,4'- Diisocyanate	5873-54-1	С	0.02 ppm 0.2 mg/m ³	OSHA Z-1
		TWA	0.005 ppm 0.05 mg/m ³	NIOSH REL
		С	0.02 ppm 0.2 mg/m ³	NIOSH REL
		TWA	0.005 ppm	ACGIH
2,2'-Methylenediphenyl diiso- cyanate	2536-05-2	TWA	0.005 ppm	CA BC OEL





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<u> </u>			С	0.01 ppm	CA BC OEL
			TWA	0.005 ppm	ACGIH
Silico	on dioxide	7631-86-9	TWAEV (respirable dust)	6 mg/m³	CA QC OEL
te, o	nylenediphenyl diisocyan ligomers, reaction produ vith 2-ethylhexan-l-ol		TWAEV	0.005 ppm 0.051 mg/m³	CA QC OEL
			TWA	0.005 ppm	CA BC OEL
			С	0.01 ppm	CA BC OEL
Tribu	utyl phosphate	126-73-8	TWA	0.2 ppm 2.2 mg/m ³	CA AB OEL
			TWA	0.2 ppm	CA BC OEL
			TWAEV (in- halable frac- tion and va- pour)	5 mg/m ³	CA QC OEL
			TWA (Inha- lable fraction and vapor)	5 mg/m³	ACGIH

Biological occupational exposure limits

Components Tributyl phosphate	CAS-No. 126-73-8	Control parameters Acetylcholi- nesterase activity	Biological specimen In red blood cells	Sam- pling time End of shift	Permissible concentra- tion 70 % of an individual's baseline	Basis ACGIH BEI
		Butyrylcho- linesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI
Engineering measures : Processing may form hazardou 10). 10). Minimize workplace exposure of If sufficient ventilation is unavail ventilation. Personal protective equipment				concentrat ailable, use	ions. with local exh	aust
Respiratory protection	sur	dequate local e assessment nmended guid	demonstrate	es exposure	es outside the	
Filter type	: Co	mbined particu	lates and or	ganic vapo	r type	
Hand protection Material Break through time Glove thickness		A 300 min 0.08 mm				
Remarks	: Cho	cose gloves to	protect hand	ds against o	chemicals dep	ending

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		applications, micals of the	ntration specific to place of work. For special we recommend clarifying the resistance to che- aforementioned protective gloves with the glove r. Wash hands before breaks and at the end of		
Eye p	Eye protection		owing personal protective equipment: es		
Skin a	Skin and body protection		 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). 		
Hygie	ene measures	eye flushing king place. When using o Contaminate workplace.	o chemical is likely during typical use, provide systems and safety showers close to the wor- do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light green
Odor	:	mild
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	200 °C
Flash point	:	> 93.4 °C
		Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable

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	Flammability (liquids)		:	No data available	9
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available)
	Vapor	pressure	:	3 hPa (25 °C)	
	Relativ	e vapor density	:	No data available	
	Density	/	:	1.26 g/cm³ (25 °C	C)
	Solubil Wat	ity(ies) ter solubility	:	No data available)
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ity cosity, kinematic	:	No data available)
	Explosi	ive properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Particle	e size	-	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical 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	:	Vapors may form explosive mixture with air. Isocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; the- se reactions can become violent. Contact is increased by stir- 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 bottom, but react slowly at the interface. The reaction forms carbon

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		Hazardous o	and a layer of solid polyurea. decomposition products will be formed upon con- er or humid air.
Cond	itions to avoid	: Exposure to	moisture.
Incon	npatible materials	: Oxidizing ag Acids Bases Water Alcohols Amines Ammonia Aluminum Zinc Brass Tin Copper Galvanized n Humid air	
Haza	rdous decomposition	: No hazardou	us decomposition products are known.

products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
		Acute toxicity estimate: 2.31 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

4,4'-Diphenylmethane	diisocyanate:
----------------------	---------------

Acute oral toxicity :	LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral tox- icity
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Remarks: Based on data from similar materials Acute inhalation toxicity :: LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dus/mist Method: OECD Test Guideline 403 Acute dermal toxicity :: LD50 (Ratbit): > 5,000 mg/kg Acute oral toxicity :: LD50 (Ratbit): > 5,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dus/mist Method: OECD Test Guideline 403 Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute dermal toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity :: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 0,515 mg/l Exposure time: 4 h Test atmosphere: dus/mist Method: OECD Test Guideline 403 Acute oral toxi	/ersion I.0	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225247124-00006Date of first issue: 11/04/2019
Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane diisocyanate, isomers and homologues: Acute oral toxicity : Acute inhalation toxicity : LD50 (Rat): > 2,24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Talc: : Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Talc: : : LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Talc: : : LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Cute oral toxicity : LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocy			Remarks: Based on data from similar materials
Remarks: Based on data from similar materials Diphenylmethane diisocyanate, isomers and homologues: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Acute oral toxicity : LD50 (Rabbit): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Biphenylmethane 2,4'-Diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Acute oral toxicity : LD50 (Rat): > 0,000 mg/kg Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity : Acute oral toxicity : LD50 (Rat):	Acute	inhalation toxicity	Exposure time: 1 h Test atmosphere: dust/mist
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity : LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Tale: . Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane 2,4'-Diisocyanate: . Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials . Acute oral toxicity : LC50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials . . Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: . . Acute oral toxicity : LD50 (Rabbit): > 0,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity :	Acute	dermal toxicity	
Acute inhalation toxicity : LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Talc: . Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane 2,4'-Diisocyanate: . Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Acute inhalation toxicity : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: . Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: . . Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acu	Diphe	enylmethane diisocy	anate, isomers and homologues:
Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Talc: Acute oral toxicity Acute oral toxicity LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane 2,4'-Diisocyanate: Acute oral toxicity Acute oral toxicity LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute oral toxicity LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute inhalation toxicity LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity LD50 (Rat): > 2,000 mg/kg<	Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Assessment: The substance or mixture has no acute derma toxicity Talc: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane 2,4'-Diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral to: icity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials 4.cute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials 4.cute oral toxicity : LD50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 4.cute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 4.cute dermal toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 4.cute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Acute	inhalation toxicity	Exposure time: 1 h Test atmosphere: dust/mist
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials Diphenylmethane 2,4'-Diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Acute	dermal toxicity	Assessment: The substance or mixture has no acute derma
Diphenylmethane 2,4'-Diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : Acute inhalation toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials 4 Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials 4 Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Talc:		
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Acute	oral toxicity	
Assessment: The substance or mixture has no acute oral to: icity Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Diphe	enylmethane 2,4'-Dii	socyanate:
Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsAcute oral toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsAcute inhalation toxicity:LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit): > 9,400 mg/kg	Acute	oral toxicity	Assessment: The substance or mixture has no acute oral to icity
Remarks: Based on data from similar materials 2,2'-Methylenediphenyl diisocyanate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	Acute	inhalation toxicity	Exposure time: 4 h Test atmosphere: dust/mist
Acute oral toxicity:LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materialsAcute inhalation toxicity:LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit): > 9,400 mg/kg	Acute	dermal toxicity	
Acute inhalation toxicity : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg	2,2'-N	lethylenediphenyl d	isocyanate:
Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403Acute dermal toxicity:LD50 (Rabbit): > 9,400 mg/kg			: LD50 (Rat): > 2,000 mg/kg
	Acute	inhalation toxicity	Exposure time: 4 h Test atmosphere: dust/mist
	Acute	dermal toxicity	

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ersion .0	Revision Date: 12/18/2023	-	S Number: 47124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
Silico	on dioxide:			
	oral toxicity	:	LD50 (Rat): > Method: OEC	5,000 mg/kg D Test Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Assessment: tion toxicity	: 4 h
Acute	e dermal toxicity	:	LD50 (Rabbit)	: > 5,000 mg/kg
	oxyalkanoic acid, co riamine, lactone and			erocycle polymer with hydroxyalkanoic aci
Acute	oral toxicity	:	LD50 (Mouse)	: 400 - 2,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): >	2,000 mg/kg
4-Iso	cyanatosulphonyltol	luene:		
Acute	oral toxicity	:	LD50 (Rat): 2, Remarks: Bas	330 mg/kg ed on data from similar materials
Acute	e dermal toxicity	:	Assessment: - toxicity	2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal ed on data from similar materials
Meth	ylenediphenyl diisoo	cyanat	e, oligomers, r	eaction products with 2-ethylhexan-I-ol:
Acute	oral toxicity	:	LD50 (Rat): > Method: OEC	5,000 mg/kg D Test Guideline 423
Acute	inhalation toxicity	:	Exposure time Test atmosphe Method: Expe	ere: dust/mist
Acute	e dermal toxicity	:		: > 5,000 mg/kg ed on data from similar materials
	tyl phosphate:			
Acute	oral toxicity	:	LD50 (Rat): 1,	552 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Method: OEC	: 4 h

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Acute	dermal toxicity	: LD50 (Rabbit): > 3,100 mg/kg
Tosyl	chloride:	
-	oral toxicity	: LD50 (Rat): 4,680 mg/kg
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
-	corrosion/irritation	
	oonents:	
4,4'-D	iphenylmethane dii	socyanate:
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Resul		: Skin irritation
Rema	ırks	: Based on data from similar materials
Diphe	enylmethane diisocy	vanate, isomers and homologues:
Speci	es	: Rabbit
Resul	t	: Skin irritation
Talc:		
Speci	es	: Rabbit
Resul		: No skin irritation
Diphe	enylmethane 2,4'-Dii	socyanate:
Speci	es	: Rabbit
Metho		: OECD Test Guideline 404
Resul	t	: Skin irritation
Rema	ırks	: Based on data from similar materials
2,2'-N	lethylenediphenyl d	iisocyanate:
Resul	-	: Skin irritation
Rema	urks	: Based on national or regional regulation.
Silico	n dioxide:	
Speci	es	: Rabbit
Metho		: OECD Test Guideline 404
Resul	t	: No skin irritation
4-Iso	cyanatosulphonylto	luene:
Resul	-	: Skin irritation
Rema	ırks	: Based on national or regional regulation.
Methy	ylenediphenyl diisoo	cyanate, oligomers, reaction products with 2-ethylhexar
-	es	: Rabbit

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Metho	od	: OECD Test Guideline 404
Resul	t	: No skin irritation
Tribut	tyl phosphate:	
Resul	t	: Skin irritation
Rema	rks	: Based on national or regional regulation.
Tosyl	chloride:	
Specie	es	: Rabbit
Resul	t	: Skin irritation
Serio	us eye damage/eye	irritation
Cause	es serious eye irritatio	n.
Comp	oonents:	
4,4'-D	iphenylmethane dii	socyanate:
Resul		: Irritation to eyes, reversing within 7 days
Rema	rks	: Based on national or regional regulation.
Diphe	enylmethane diisocy	anate, isomers and homologues:
Resul	t	: Irritation to eyes, reversing within 7 days
Talc:		
Specie	es	: Rabbit
Resul		: No eye irritation
Diphe	enylmethane 2,4'-Dii	socyanate:
Resul	t	: Irritation to eyes, reversing within 21 days
Rema	rks	: Based on national or regional regulation.
2,2'-M	lethylenediphenyl d	iisocyanate:
Resul	t	: Irritation to eyes, reversing within 7 days
Rema	rks	: Based on national or regional regulation.
Silico	n dioxide:	
Specie	es	: Rabbit
Resul	t	: No eye irritation
Metho	od	: OECD Test Guideline 405
4-Isoc	cyanatosulphonylto	uene:
Resul	t	: Irritation to eyes, reversing within 21 days
Rema	rks	: Based on national or regional regulation.
Methy	/lenediphenyl diisoo	yanate, oligomers, reaction products with 2-ethylhexan-l-
Specie		: Rabbit
Resul		: No eye irritation
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ersion)	Revision Date: 12/18/2023	SDS Number: 5247124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
Metho	d	: OECD Test Guid	leline 405
Tribut	yl phosphate:		
Specie		: Rabbit	
Result		: No eye irritation	
Metho		: OECD Test Guid	leline 405
Tosyl	chloride:		
Specie	es	: Rabbit	
Result		: Irreversible effec	ts on the eye
Respi	ratory or skin sens	itization	
Skin s	ensitization		
-	ause an allergic skin		
-	ratory sensitization ause allergy or asthr	na symptoms or breathin	g difficulties if inhaled.
<u>Comp</u>	<u>onents:</u>		
	iphenylmethane dii	-	
Test T		: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: positive	
Asses	sment	: Probability or evi	dence of skin sensitization in humans
Routes	s of exposure	: Inhalation	
Specie		: Rat	
Result		: positive	
Remai	rks	: Based on data fr	om similar materials
Asses	sment	: Probability of res animal testing	piratory sensitization in humans based
Diphe	nylmethane diisocy	/anate, isomers and ho	mologues:
Test T		: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: positive	
Remai	rks	: Based on data fr	om similar materials
Asses	sment	: Probability or evi	dence of skin sensitization in humans
	s of exposure	: inhalation (dust/r	nist/fume)
Specie		: Rat	
Result		: positive	
	sment	: Probability of res	piratory sensitization in humans based
Asses		animal testing	

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Persion Revision Date: SDS Number: 0 12/18/2023 5247124-00006			Date of last issue: 11/10/2022 Date of first issue: 11/04/2019			
Talc:						
Route	s of exposure	: Skin contact				
Specie	es	: Humans				
Resul	t	: negative				
Diphe	enylmethane 2,4'-Di	isocyanate:				
Route	s of exposure	: Inhalation				
Specie	es	: Rat				
Resul	t	: positive				
Rema	rks	: Based on data	from similar materials			
Asses	sment	: Probability or ev	vidence of skin sensitization in humans			
Asses	sment	: Probability of re animal testing	spiratory sensitization in humans based on			
2,2'-M	lethylenediphenyl c	liisocyanate:				
Test T		: Local lymph no	de assay (LLNA)			
	s of exposure	: Skin contact				
Specie		: Mouse				
Result	t	: positive				
Rema	rks	: Based on data	from similar materials			
Asses	sment	: Probability or ev	vidence of skin sensitization in humans			
Route	s of exposure	: inhalation (dust	/mist/fume)			
Specie	es	: Guinea pig				
Resul	t	: positive				
Rema	rks	: Based on data	from similar materials			
Asses	sment	: Probability of re animal testing	spiratory sensitization in humans based on			
4-Isod	cyanatosulphonylto	luene:				
Test T			de assay (LLNA)			
	s of exposure	: Skin contact	······································			
Specie		: Mouse				
Metho		: OECD Test Gu	deline 429			
Resul	t	: negative				
Rema	rks		from similar materials			
	s of exposure	: Inhalation				
Resul	t	: positive				
	sment		sitization by inhalation.			
Rema	rks	: Based on nation	nal or regional regulation.			
Methy	/lenediphenyl diiso	cyanate, oligomers, re	action products with 2-ethylhexan-I-ol:			
Test T	уре	: Local lymph no	de assay (LLNA)			

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Route Speci Metho Resul	bc	: Skin contact : Mouse : OECD Test : positive	Guideline 429			
Asses	ssment	: Probability of	or evidence of skin sensitization in humans			
Speci Rema		: Guinea pig : Based on da	 inhalation (dust/mist/fume) Guinea pig Based on data from similar materials Probability of respiratory sensitization in humans based on 			
A3363	Someric	animal testir				
Tribu	tyl phosphate:					
Route Speci Resul		: Skin contact : Guinea pig : negative	t			
Tosy	l chloride:					
Test Route Speci Metho Resul	es of exposure les od	: Skin contact : Mouse	node assay (LLNA) Guideline 429			
Asses	ssment	: Probability c mans	or evidence of high skin sensitization rate in hu-			
Germ	n cell mutagenicity					

Not classified based on available information.

Components:

4,4'-Diphenylmethane diisocyanate:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 474 Result: negative
Diphenylmethane diisocyanate	e, isomers and homologues:
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

according to the Hazardous Products Regulations



/ersion .0	Revision Date: 12/18/2023	SDS Number: 5247124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
			Route: inhalation (dust/mist/fume) CD Test Guideline 474
Talc:			
Geno	toxicity in vitro		DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) ative
Geno	toxicity in vivo	Species: Ra	Route: Ingestion
Diphe	enylmethane 2,4'-Dii	socyanate:	
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
Geno	toxicity in vivo	cytogenetic Species: Ra Application Method: OE Result: nega	t Route: inhalation (dust/mist/fume) CD Test Guideline 474
2 2' 1	/lethylenediphenyl d	iicoovonato	
	toxicity in vitro	: Test Type: E	Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative
Geno	toxicity in vivo	cytogenetic Species: Ra Application Method: OE Result: nega	t Route: inhalation (dust/mist/fume) CD Test Guideline 474
Silico	on dioxide:		
Geno	toxicity in vitro		Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative
Geno	toxicity in vivo	cytogenetic Species: Ra	Route: Ingestion

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rsion)	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225247124-00006Date of first issue: 11/04/2019
4-Isoc	cyanatosulphonylt	oluene:
Genot	toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
Methy	ylenediphenyl diiso	ocyanate, oligomers, reaction products with 2-ethylhexan-l-ol:
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
Tribu	tyl phosphate:	
Genot	toxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genot	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative
Tosyl	chloride:	
-	toxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: positive
Genot	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection

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Version 4.0	Revision Date: 12/18/2023	-	DS Number: 47124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
			Method: OECD T Result: negative	est Guideline 474
	cinogenicity pected of causing cance	r.		
Components:				
4.4'-	Diphenylmethane diiso	ocva	nate:	
Spe		:	Rat	
	lication Route	:	inhalation (dust/m	nist/fume)
Expo	osure time	:	2 Years	
Res		:	positive	
Rem	harks	:	Based on data fro	om similar materials
Carcinogenicity - Assess- : Limited evidence of carcin ment		of carcinogenicity in animal studies		
Dipł	nenylmethane diisocya	nate	, isomers and hor	nologues:
Spee	cies	:	Rat	
	lication Route	:	inhalation (dust/m	nist/fume)
	osure time	:	2 Years	
Res	Result		positive	
Caro men	cinogenicity - Assess- t	:	Limited evidence	of carcinogenicity in animal studies
Talc	:			
Spee	cies	:	Mouse	
	lication Route	:	inhalation (dust/m	nist/fume)
	osure time	:	2 Years	
Res	ult	:	negative	
Dipł	nenylmethane 2,4'-Diis	осуа	nate:	
Spee		:	Rat	
	lication Route	:	inhalation (dust/m	nist/fume)
	osure time	:	2 Years	
Res	ult narks	÷	positive Record on data fro	om similar materials
Ren	IdIKS	•	Daseu un uala inc	similar materials
Caro men	cinogenicity - Assess- t	:	Limited evidence	of carcinogenicity in animal studies
2,2'-	Methylenediphenyl dii	socy	anate:	
Spee		:	Rat	
	lication Route	:	inhalation (dust/m	nist/fume)
	Exposure time :		2 Years	
Res	ult narks	: positive : Based on data from similar materials		om similar matarials
Ken	iains	•	Daseu on data Iro	ni siiiila malenais
Carc	cinogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies

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Version 4.0	Revision Date: 12/18/2023		DS Number: Date of last issue: 11/10/2022 47124-00006 Date of first issue: 11/04/2019
ment			Remarks: Based on national or regional regulation.
Silico Specie	n dioxide:		Rat
Applic	ation Route ure time	:	Ingestion 103 weeks negative
		anat	e, oligomers, reaction products with 2-ethylhexan-l-ol:
	ation Route ure time		Rat inhalation (dust/mist/fume) 2 Years positive Based on data from similar materials
Carcin ment	ogenicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
Tribut	yl phosphate:		
	ation Route ure time	:	Rat Ingestion 24 month(s) positive
Carcin ment	ogenicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
•	ductive toxicity assified based on availa	able	information.
Comp	onents:		
	iphenylmethane diiso	cya	
Effects	s on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (dust/mist/fume) Result: negative Remarks: Based on data from similar materials
-	nylmethane diisocyar s on fetal development	nate	, isomers and homologues:
Enects	s on retai development	•	Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (dust/mist/fume) Result: negative
Talc: Effects	s on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative

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Dint	nenylmethane 2,4'-Diiso	cvanate:	
-	cts on fetal development	: Test Type: Em Species: Rat Application Ro Result: negativ	bryo-fetal development ute: inhalation (dust/mist/fume) re ed on data from similar materials
2,2'-	Methylenediphenyl diis	ocyanate:	
Effe	cts on fetal development	Species: Rat Application Ro Result: negativ	bryo-fetal development ute: inhalation (dust/mist/fume) /e ed on data from similar materials
Silic	on dioxide:		
Effe	cts on fetal development	: Test Type: Em Species: Rat Application Ro Result: negativ	
4-ls	ocyanatosulphonyltolue	ene:	
Effe	cts on fertility	Species: Rat Application Ro Method: OECI Result: negativ	D Test Guideline 416
Effe	cts on fetal development	Species: Rabb Application Ro Result: negativ	ute: Ingestion
Met	hylenediphenyl diisocya	anate, oligomers, r	eaction products with 2-ethylhexan-l-ol:
	cts on fetal development	: Test Type: Em Species: Rat Application Ro Method: OECI Result: negativ	bryo-fetal development ute: inhalation (dust/mist/fume) D Test Guideline 414
Trib	utyl phosphate:		
Effe	cts on fertility	: Test Type: Two Species: Rat Application Ro Result: negativ	

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sion	Revision Date: 12/18/2023		DS Number: 47124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019	
Effect	s on fetal development	:	Test Type: Emb Species: Rat Application Rout Result: negative		
Tosyl	chloride:				
Effects on fertility		:	Test Type: Combined repeated dose toxicity study with th reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative		
Effects on fetal development		:	reproduction/dev Species: Rat Application Rout Method: OECD	Test Guideline 422	
			Result: negative		
stot	-single exposure		Result: negative		
	-single exposure cause respiratory irritatio	on.	Result: negative		
May c		n.	Result: negative		
May c <u>Comp</u>	cause respiratory irritatio				
May c <u>Comr</u> 4,4'-D	ause respiratory irritatio				
May c <u>Comr</u> 4,4'-D Asses	cause respiratory irritatio ponents: Piphenylmethane diiso	cya :	nate: May cause respi	ratory irritation.	
May o <u>Comp</u> 4,4'-D Asses Diphe	cause respiratory irritatio ponents: Piphenylmethane diiso ssment	cya :	nate: May cause respi	ratory irritation.	
May o Comp 4,4'-D Asses Diphe Asses	cause respiratory irritatio <u>conents:</u> Diphenylmethane diiso ssment enylmethane diisocyar ssment	cyai : nate :	nate: May cause respi , isomers and ho May cause respi	ratory irritation.	
May of Comp 4,4'-D Asses Diphe Asses	cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan	cyai : nate :	nate: May cause respi , isomers and ho May cause respi	ratory irritation. mologues: ratory irritation.	
May o <u>Comp</u> 4,4'-D Asses Diphe Asses Diphe	cause respiratory irritatio ponents: Diphenylmethane diisoo ssment enylmethane diisocyan ssment enylmethane 2,4'-Diiso	cya inate cya	nate: May cause respi , isomers and ho May cause respi nate: May cause respi	ratory irritation. mologues: ratory irritation.	
May of Comp 4,4'-D Asses Diphe Asses 2,2'-N	cause respiratory irritation ponents: Diphenylmethane diisoo assment anylmethane diisocyan assment anylmethane 2,4'-Diiso assment	cya inate cya	nate: May cause respi , isomers and ho May cause respi nate: May cause respi	ratory irritation. mologues: ratory irritation. ratory irritation.	
May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses	cause respiratory irritation ponents: Diphenylmethane diisoo ssment enylmethane diisocyar ssment enylmethane 2,4'-Diiso ssment lethylenediphenyl diisossment	cya inate : cya : ocy	nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi	ratory irritation. mologues: ratory irritation. ratory irritation.	
May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses 4-Isoo	cause respiratory irritation ponents: Diphenylmethane diisoo asment enylmethane diisocyar asment enylmethane 2,4'-Diiso asment lethylenediphenyl diis	cya inate : cya : ocy	nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi	ratory irritation. mologues: ratory irritation. ratory irritation.	
May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses 4-Isod Asses	cause respiratory irritation ponents: Diphenylmethane diisoo assment enylmethane diisocyar assment enylmethane 2,4'-Diiso assment lethylenediphenyl diiso assment cyanatosulphonyltolue assment	cya nate cya ocy	nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi	ratory irritation. mologues: ratory irritation. ratory irritation.	

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

according to the Hazardous Products Regulations



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rsion	Revision Date: 12/18/2023	SDS Number: 5247124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019			
Com	ponents:					
4,4'-C	Diphenylmethane dii	socyanate:				
Route Targe	es of exposure et Organs ssment	: inhalation (dust : Respiratory Tra	act			
A556:	ssmem		uce significant health effects in animals at cor •0.02 to 0.2 mg/l/6h/d.			
Diph	enylmethane diisocy	/anate, isomers and h	omologues:			
Route	es of exposure	: inhalation (dust	t/mist/fume)			
-	et Organs	: Respiratory Tra				
Asses	ssment		uce significant health effects in animals at co -0.02 to 0.2 mg/l/6h/d.			
Diph	enylmethane 2,4'-Dii	socyanate:				
Route	es of exposure	: inhalation (dust	t/mist/fume)			
	et Organs	: Respiratory Tra				
Asses	ssment		Shown to produce significant health effects in animals at con- centrations of >0.02 to 0.2 mg/l/6h/d.			
2,2'-N	lethylenediphenyl d	iisocyanate:				
	es of exposure	: inhalation (dust				
	et Organs	: Respiratory Tra				
Asse	ssment		uce significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d.			
Meth	ylenediphenyl diiso	cyanate, oligomers, re	eaction products with 2-ethylhexan-l-ol:			
Route	es of exposure	: inhalation (dust	t/mist/fume)			
	et Organs	: Respiratory Tra				
Asse	ssment		Shown to produce significant health effects in animals at con- centrations of >0.02 to 0.2 mg/l/6h/d.			
Repe	ated dose toxicity					
<u>Com</u>	ponents:					
•)iphenylmethane dii	•				
Speci		: Rat				
NOAI LOAE		: 0,2 mg/m3 : 1 mg/m3				
	cation Route	: inhalation (dust	t/mist/fume)			
	sure time	: 2 y				
Rema			from similar materials			
Diph	enylmethane diisocy	/anate, isomers and h	omologues:			
Spec		: Rat				
NOAI		: 1.4 mg/m3				
LOAE		: 4.1 mg/m3				
	cation Route	: inhalation (dust	t/mist/tume)			

: 13 Weeks

Exposure time

according to the Hazardous Products Regulations



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Diphenylmethane 2,4'-Diisocyanate:

Species :	Rat
NOAEL :	0,2 mg/m3
LOAEL :	1 mg/m3
Application Route :	inhalation (dust/mist/fume)
Exposure time :	2 y
Remarks :	Based on data from similar materials

2,2'-Methylenediphenyl diisocyanate:

Species :	Rat
NOAEL :	0.0002 mg/l
LOAEL :	0.001 mg/l
Application Route :	inhalation (dust/mist/fume)
Exposure time :	2 у
Remarks :	Based on data from similar materials

Silicon dioxide:

Species NOAEL	:	Rat
NOAEL	:	1.3 mg/m³
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	13 Weeks

4-Isocyanatosulphonyltoluene:

Species :	Rat
NOAEL :	214 mg/kg
LOAEL :	738 mg/kg
Application Route :	Ingestion
Exposure time :	90 Days
Method :	OECD Test Guideline 408
Remarks :	Based on data from similar materials

Methylenediphenyl diisocyanate, oligomers, reaction products with 2-ethylhexan-l-ol:

Species :	Rat
LOAEL :	0.05 mg/kg
Application Route :	inhalation (dust/mist/fume)
Exposure time :	90 Days
Remarks :	Based on data from similar materials

Tributyl phosphate:

Species	:	Mouse
LÖAEL	:	> 300 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

Tosyl chloride:

Species	:	Rat
LÕAEL	:	150 mg/kg
Application Route	:	Ingestion

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	Exposure time Method		34 Days OECD Test Guideline 422		
No	piration toxicity t classified based on availa				
	otoxicity				
	mponents:				
		cya	nate:		
	xicity to fish	:	LC50 (Oryzias lat Exposure time: 9	ipes (Orange-red killifish)): > 3,000 mg/l 5 h on data from similar materials	
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 24	nagna (Water flea)): 129.7 mg/l 4 h est Guideline 202	
To: pla	xicity to algae/aquatic nts	:	mg/l Exposure time: 72 Method: OECD T		
			Exposure time: 72 Method: OECD T		
aqu	xicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	Exposure time: 2 Method: OECD T		
То	xicity to microorganisms	:	EC50: > 100 mg/ Exposure time: 3 Method: OECD T Remarks: Based	h	
Dip	ohenylmethane diisocyan	ate	, isomers and hor	nologues:	
-	xicity to fish	:		o (zebra fish)): > 1,000 mg/l	
To: pla	xicity to algae/aquatic nts	:	 ErC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l Exposure time: 72 h 		
	xicity to daphnia and other uatic invertebrates (Chron-	:	: NOEC (Daphnia magna (Water flea)): > 10 mg/l Exposure time: 21 d		

according to the Hazardous Products Regulations



ersion 0	Revision Date: 12/18/2023	-	9S Number: 47124-00006	Date of last issue: 11/10/2022 Date of first issue: 11/04/2019
ic toxi	city)			
Talc:				
Toxici	ty to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l ł h
Diphe	enylmethane 2,4'-Diiso	cya	nate:	
Toxici	ty to fish	:	Exposure time: 96 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	Exposure time: 24 Method: OECD T	
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			Exposure time: 72 Method: OECD T	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 ² Method: OECD T	
Toxici	ty to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based	h
2,2'-№	lethylenediphenyl diis	осу	anate:	
Toxici	ty to fish	:	Exposure time: 96	es (Japanese medaka)): > 3,000 mg/l 5 h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 24	agna (Water flea)): 129.7 mg/l ł h on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
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			mg/l Exposure time: 72 Method: OECD Te	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD Te	
Toxici	ty to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD Te Remarks: Based o	h
Silioo	n dioxide:			
	ty to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te	
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD Te	
	oxyalkanoic acid, com riamine, lactone and la			cycle polymer with hydroxyalkanoic acid,
Toxicit	ty to fish	:	LC50 (Brachydan Exposure time: 96	io rerio (zebrafish)): > 1 - 10 mg/l S h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 10 - 100 mg/l 3 h
4-lsoo	wanatasulnhanvitalua	n o:		
	y anatosulphonyltolue ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	

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	kicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Method: OECD Te	
To» pla	kicity to algae/aquatic nts	:	Exposure time: 72 Method: OECD Te	
			Exposure time: 72 Method: OECD Te	
Ме	thylenediphenyl diisocya	nat	e, oligomers, read	tion products with 2-ethylhexan-I-ol:
	kicity to fish	:	LL50 (Danio rerio Exposure time: 96 Test substance: V	(zebra fish)): > 100 mg/l
	kicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Test substance: V	agna (Water flea)): 2 mg/l 3 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.2.
To» pla	kicity to algae/aquatic nts	:	Exposure time: 72 Test substance: V	mus subspicatus (green algae)): > 100 mg/l 2 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.3.
То	kicity to microorganisms	:	EC50: > 10,000 m Exposure time: 3 Method: 88/302/E	h
Tri	butyl phosphate:			
	kicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 4.2 mg/l S h
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 2.6 mg/l 3 h
To» pla	kicity to algae/aquatic nts	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 2.8 mg/l 2 h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 0.92 mg/l 2 h
To» icity	kicity to fish (Chronic tox- y)	:	NOEC (Oncorhyn Exposure time: 95	chus mykiss (rainbow trout)): 0.82 mg/l 5 d
То	kicity to daphnia and other	:	NOEC (Daphnia r	nagna (Water flea)): 0.87 mg/l

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aquat ic tox	tic invertebrates (Chron- icity)		Exposure time:	21 d
Toxic	ity to microorganisms	:	EC50: 100 mg/l Exposure time: : Method: OECD	3 h Test Guideline 209
Tosy	l chloride:			
-	ity to fish	:	Exposure time:	atipes (Japanese medaka)): > 100 mg/l 96 h Test Guideline 203
	ity to daphnia and other tic invertebrates	:	Exposure time:	magna (Water flea)): > 334 mg/l 48 h Test Guideline 202
Toxic plants	ity to algae/aquatic s	:	ErC50 (Pseudol mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 1 72 h
			NOEC (Pseudol mg/l Exposure time:	kirchneriella subcapitata (green algae)): 2.6 72 h
Toxic	ity to microorganisms	:	EC10: 240 mg/l Exposure time: 3 Remarks: Based	3 h d on data from similar materials
Persi	stence and degradabili	ity		
Com	ponents:	-		
4.4'-0	Diphenylmethane diisoo	cvai	nate:	
	egradability	-	Result: Not read Biodegradation: Exposure time: 2 Method: OECD	
Diph	enylmethane diisocyan	ate	, isomers and ho	omologues:
Biode	egradability	:	Result: Not read Biodegradation: Exposure time: 2	
Diph	enylmethane 2,4'-Diisoo	cya	nate:	
-	egradability	:	Result: Not read Biodegradation: Exposure time:	

2,2'-Methylenediphenyl diisocyanate:

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Biod	egradability	 Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Remarks: Based on data from similar materials
4-lso	ocyanatosulphonylto	luene:
Biod	egradability	 Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 28 d Method: OECD Test Guideline 301D Remarks: Based on data from similar materials
Meth	nylenediphenyl diisoo	cyanate, oligomers, reaction products with 2-ethylhexan-I-ol:
Biod	egradability	 Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F
Trib	utyl phosphate:	
	egradability	 Result: Readily biodegradable. Biodegradation: 92 % Exposure time: 28 d Method: OECD Test Guideline 301D
Tos	yl chloride:	
Biod	egradability	 Result: Readily biodegradable. Biodegradation: 60 % Exposure time: 28 d Method: OECD Test Guideline 301D
Bioa	accumulative potentia	al
Com	ponents:	
4,4'-	Diphenylmethane dii	socyanate:
	ccumulation	: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200
	ition coefficient: n- nol/water	: log Pow: 4.51
Diph	nenylmethane 2,4'-Dii	socyanate:
Parti	ition coefficient: n- nol/water	-
2,2'-	Methylenediphenyl d	iisocyanate:
	ccumulation	: Species: Cyprinus carpio (Carp) Concentration: 92 - 200 mg/l Remarks: Based on data from similar materials
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4-Iso	cyanatosulphonylto	luene:	
	ion coefficient: n- ol/water	: log Pow: 0.6)
Meth	ylenediphenyl diisoo	cyanate, oligomers	, reaction products with 2-ethylhexan-I-ol:
	ion coefficient: n- ol/water	: log Pow: 4.5	1
Tribu	ityl phosphate:		
Bioac	cumulation		prinus carpio (Carp) ation factor (BCF): 6.9 - 20
	ion coefficient: n- ol/water	: log Pow: 4	
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues :	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging :	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR UN/ID No.	:	UN 3334
Proper shipping name	:	Aviation regulated liquid, n.o.s. (4,4'-Diphenylmethane diisocyanate, Diphenylmethane diiso- cyanate, isomers and homologues)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964

according to the Hazardous Products Regulations



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Packing instruction (passen- : 964 ger aircraft)

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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Volatile organic compounds	CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 -
(VOC) content	Guidelines for VOC in Consumer Products
	VOC content: 0 %

The ingredients of this prod	uct	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 ACGIH BEI CA AB OEL	::	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) 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
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / C	:	ceiling limit
CA ON OEL / C	:	Ceiling Limit (C)



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CA QC NIOSH	I OEL / TWA C OEL / TWAEV I REL / TWA I REL / C Z-1 / C	 Time-weighted Time-weighted workday during 	Average Limit (TWA) average exposure value average concentration for up to a 10-hour a 40-hour workweek ot be exceeded at any time.

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 Development; 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	:	12/18/2023 mm/dd/yyyy

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 according to the Hazardous Products Regulations



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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.

CA / Z8