according to the Hazardous Products Regulations



REPLAST EASY 3.5 MIN, Component B

Ver 4.0	sion	Revision Date: 12/18/2023	-	0S Number: 42443-00006	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019
SEC	CTION 1	. IDENTIFICATION			
	Produc	t name	:	REPLAST EASY	3.5 MIN, Component B
	Produc	t code	:	893.50004B	
	Other r	means 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)
				Urgences implique exposition:	ant un déversement, incendie, explosion ou
				CHEMTREC (24/	7): 1-800-424-9300
				Urgences liées au CANUTEC (24/7)	i transport: : 1-613-996-6666 ou * 666 (cellulaire)
	E-mail	address	:	prodsafe@wurth.o	ca
	Recom	nmended use of the c	hem		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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Ca	rcinogenicity	:	Category 2	
	ecific target organ toxicity ingle exposure	:	Category 3	
	ecific target organ toxicity epeated exposure (Inhala- n)	:	Category 2 (Resp	iratory Tract)
GF	IS label elements			
Ha	zard pictograms	:		!
Sig	nal Word	:	Danger	
Ha	zard 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.
Pre	ecautionary 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 the workplace.	
			Response:	
			P304 + P340 + P3 and keep comfort unwell. P305 + P351 + P3 for several minute to 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 es. Remove contact lenses, if present and easy nsing. xposed or concerned: Get medical attention. cin irritation or rash occurs: Get medical atten-

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		P342 + P311 If tor.	eye irritation persists: Get medical attention. experiencing respiratory symptoms: Call a doc- ake off contaminated clothing and wash it before
	F	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

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).

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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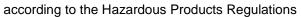


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		hydroxyoctade- canoic acid,				
4- Isocy nyltol	anatosulpho- uene	Benzenesulfonyl isocyanate, 4- methyl-	4083-64-1	>= 0.1 - < 1 *		
Methylenediphenyl diisocyanate, oligo- mers, reaction prod- ucts with 2-ethylhexan-		Isocyanic acid, polymethylene- polyphenylene ester, 2-ethyl-1- hexanol-blocked	147993-65-	>= 0.1 - < 1 *		
Tribu	tyl phosphate	Phosphoric acid tributyl ester	126-73-8	>= 0.1 - < 1 *		
Tosyl	l 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).
Prote	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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	Prevent sprea oil barriers). Retain and dis Local authoriti	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 tained.
ods and materials for inment and cleaning up	For large spills ment to keep i pumped, store Clean up rema bent. After approxim do not seal, du	nert absorbent material. s, provide diking or other appropriate contain- material from spreading. If diked material can be e recovered material in appropriate container. aining materials from spill with suitable absor- nately one hour, transfer to waste container and ue to evolution of carbon dioxide.
	sal of this mat ployed in the c which regulation Sections 13 and	nal regulations may apply to releases and dispo- erial, as well as those materials and items em- cleanup of releases. You will need to determine ons are applicable. Ind 15 of this SDS provide information regarding r national requirements.
	12/18/2023	12/18/20235242443-0000612/18/2023Prevent furthe Prevent sprea oil barriers). Retain and dis Local authoriti cannot be conods and materials for inment and cleaning up: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 mat ployed in the o which regulatio Sections 13 an

ECTION 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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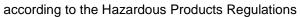
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Mate	rials to avoid	: Do not store w Strong oxidizir	vith the following product types: ng agents

Gases

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/m³	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/m ³	CA ON OEL
		TWA (Respi- rable particu- late matter)	2 mg/m³	ACGIH
Diphenylmethane 2,4'- Diisocyanate	5873-54-1	C	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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			С	0.01 ppm	CA BC OEL
			TWA	0.005 ppm	ACGIH
Silico	n dioxide	7631-86-9	TWAEV (respirable dust)	6 mg/m³	CA QC OEL
te, oli	ylenediphenyl diisocyana gomers, reaction produ- ith 2-ethylhexan-l-ol	47993-65-5	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
Tribut	tyl 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	5 mg/m ³	ACGIH

and vapor)

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling	Permissible concentra-	Basis	
Tributyl phosphate	126-73-8	Acetylcholi- nesterase activity	In red blood cells	time End of shift	tion 70 % of an individual's baseline	ACGIH BEI	
		Butyrylcho- linesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI	
Engineering measures	10) Mir If s	nimize workpla	ce exposure	concentral	unds (see secti tions. e with local exh		
Personal protective equ	Personal protective equipment						
Respiratory protection	sur		demonstrate	es exposure	ot available or es outside the protection.		
Filter type	: Co	mbined particu	ulates and or	ganic vapo	r type		
Hand protection Material Break through time Glove thickness		A 300 min 0.08 mm					
Remarks	: Ch	oose gloves to	protect han	ds against	chemicals dep	ending	

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		applications, w micals of the a	ration specific to place of work. For special re recommend clarifying the resistance to che- forementioned protective gloves with the glove Wash hands before breaks and at the end of
Eye p	protection	: Wear the follow Safety goggles	ving personal protective equipment:
Skin a	and body protection	resistance data potential. Skin contact m	iate protective clothing based on chemical a and an assessment of the local exposure ust be avoided by using impervious protective s, aprons, boots, etc).
Hygie	ene measures	eye flushing sy king place. When using do Contaminated workplace.	chemical is likely during typical use, provide rstems and safety showers close to the wor- o not eat, drink or smoke. work clothing should not be allowed out of the nated 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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	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available)
	Vapor p	pressure	:	3 hPa (25 °C)	
	Relative	e vapor density	:	No data available	
	Density	,	:	1.26 g/cm³ (25 °C	
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve 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 d	and a layer of solid polyurea. ecomposition 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 r Humid air	
Haza	rdous decomposition	: No hazardou	s 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.

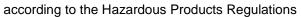
Product:

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	
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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: dust/mist Method: OECD Test Guideline 403	Exposure time: 1 h Test atmosphere: dust/mist				
Acute	e dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials					
Diphe	enylmethane diisocy	anate, isomers and homologues:					
Acute	e 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	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute der toxicity	rmal				
Talc:							
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials					
Diphe	enylmethane 2,4'-Dii	ocyanate:					
Acute	e oral toxicity	 LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute ora icity Remarks: Based on data from similar materials 	al tox				
Acute	inhalation toxicity	: LC50 (Rat): 0.515 mg/l					
		Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403					
Acute	e dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials					
2,2'-N	/lethylenediphenyl d	socyanate:					
Acute	e 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	e dermal toxicity	: LD50 (Rabbit): > 9,400 mg/kg Remarks: Based on data from similar materials					

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Silico	n dioxide:			
Acute	oral toxicity	:	LD50 (Rat): > Method: OECI	5,000 mg/kg D Test Guideline 401
Acute	Acute inhalation toxicity		LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity	: 4 h
Acute	dermal toxicity	:	LD50 (Rabbit)	: > 5,000 mg/kg
	oxyalkanoic acid, co riamine, lactone and			erocycle polymer with hydroxyalkanoic acid
Acute	oral toxicity	:	LD50 (Mouse)	: 400 - 2,000 mg/kg
Acute	dermal toxicity	:	LD50 (Rat): >	2,000 mg/kg
4-Iso	cyanatosulphonylto	luene:		
Acute	oral toxicity	:	LD50 (Rat): 2, Remarks: Bas	330 mg/kg ed on data from similar materials
Acute	dermal toxicity	:	Method: OECI Assessment: T toxicity	2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal ed on data from similar materials
Methy	ylenediphenyl diisoo	cyanat	e, oligomers, r	eaction products with 2-ethylhexan-l-ol:
Acute	oral toxicity	:	LD50 (Rat): > Method: OECI	5,000 mg/kg D Test Guideline 423
Acute inhalation toxicity		:	Exposure time Test atmosphe Method: Expe	ere: dust/mist
Acute	dermal toxicity	:		: > 5,000 mg/kg ed on data from similar materials
Tribu	tyl phosphate:			
Acute	oral toxicity	:	LD50 (Rat): 1,	552 mg/kg
Acute inhalation toxicity		:	LC50 (Rat): > Exposure time Test atmosphe Method: OECI	::4h

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rsion	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019
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:	
) Diphenylmethane dii	socvanate.
	• •	: Rabbit
Speci Metho		: OECD Test Guideline 404
Resul		: Skin irritation
Rema		: Based on data from similar materials
Diphe	enylmethane diisocy	vanate, isomers and homologues:
Speci	es	: Rabbit
Resul		: Skin irritation
Talc:		
Speci	es	: Rabbit
Resul		: No skin irritation
Diphe	enylmethane 2,4'-Dii	socyanate:
Speci	es	: Rabbit
Metho	bd	: OECD Test Guideline 404
Resul		: Skin irritation
Rema	arks	: Based on data from similar materials
2,2'-N	lethylenediphenyl d	iisocyanate:
Resul	-	: Skin irritation
Rema	urks	: Based on national or regional regulation.
Silico	on 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.
-		cyanate, oligomers, reaction products with 2-ethylhexar
	es	: Rabbit

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ersion)	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019
Metho	bd	: OECD Test Guideline 404
Result		: No skin irritation
Tribu	tyl phosphate:	
Resul	t	: Skin irritation
Rema	urks	: Based on national or regional regulation.
Tosyl	chloride:	
Speci	es	: Rabbit
Resul	t	: Skin irritation
Serio	us eye damage/eye	irritation
Cause	es serious eye irritatio	n.
<u>Comp</u>	oonents:	
'	iphenylmethane dii	socyanate:
Resul		: Irritation to eyes, reversing within 7 days
Rema	ırks	: Based on national or regional regulation.
Diphe	enylmethane diisocy	vanate, isomers and homologues:
Resul	t	: Irritation to eyes, reversing within 7 days
Talc:		
Speci	es	: Rabbit
Resul		: No eye irritation
Diphe	enylmethane 2,4'-Dii	socyanate:
Resul	t	: Irritation to eyes, reversing within 21 days
Rema	irks	: Based on national or regional regulation.
2,2'-N	lethylenediphenyl d	iisocyanate:
Resul	t	: Irritation to eyes, reversing within 7 days
Rema	ırks	: Based on national or regional regulation.
Silico	n dioxide:	
Speci	es	: Rabbit
Resul		: No eye irritation
Metho	bd	: OECD Test Guideline 405
4-Iso	cyanatosulphonylto	luene:
Resul		: Irritation to eyes, reversing within 21 days
Rema		: Based on national or regional regulation.
Meth	ylenediphenvl diiso	cyanate, oligomers, reaction products with 2-ethylhexan-l-
Speci		: Rabbit
Resul		: No eye irritation

according to the Hazardous Products Regulations



ersion)	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019	
Method		: OECD Test Guideline 405	
Tributy	I phosphate:		
Species		: Rabbit	
Result		: No eye irritation	
Method		: OECD Test Guideline 405	
Tosyl c	hloride:		
Species	6	: Rabbit	
Result		: Irreversible effects on the eye	
Respira	atory or skin sensi	ization	
Skin se	ensitization		
•	use an allergic skin	eaction.	
-	atory sensitization use allergy or asthn	a symptoms or breathing difficulties if inhaled.	
Compo	onents:		
4,4'-Dip	henylmethane dii	ocyanate:	
Test Ty		: Buehler Test	
	of exposure	: Skin contact	
Species	6	: Guinea pig	
Result		: positive	
Assessi	ment	: Probability or evidence of skin sensitization in humans	;
	of exposure	: Inhalation	
Species	6	: Rat	
Result		: positive	
Remark	(S	: Based on data from similar materials	
Assessi	ment	: Probability of respiratory sensitization in humans base animal testing	d ol
Diphen	ylmethane diisocy	anate, isomers and homologues:	
Test Ty	pe	: Buehler Test	
Routes	of exposure	: Skin contact	
Species	6	: Guinea pig	
Result		: positive	
Remark	(S	: Based on data from similar materials	
Assessi	ment	: Probability or evidence of skin sensitization in humans	;
	of exposure	: inhalation (dust/mist/fume)	
Species : Rat Result : positive			
Assessi	ment	: Probability of respiratory sensitization in humans base animal testing	d oi
		16 / 36	

according to the Hazardous Products Regulations



ersion 0	Revision Date: 12/18/2023	SDS Number: 5242443-00006	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019				
Talc:							
	es of exposure	: Skin contac	t				
Speci		: Humans					
Resu	lt	: negative					
Diphe	enylmethane 2,4'-Dii	socyanate:					
Route	es of exposure	: Inhalation					
Speci		: Rat					
Resu			: positive				
Rema	arks	: Based on d	ata from similar materials				
Asses	ssment	: Probability	or evidence of skin sensitization in humans				
Asses	ssment	: Probability o animal testi	of respiratory sensitization in humans based ng				
2,2'-N	lethylenediphenyl d	iisocyanate:					
Test ⁻	Туре	: Local lymph	n node assay (LLNA)				
	es of exposure	: Skin contac					
Speci		: Mouse					
Resu		: positive					
Remarks		: Based on data from similar materials					
Asses	ssment	: Probability or evidence of skin sensitization in humans					
Route	es of exposure	: inhalation (dust/mist/fume)				
Speci		: Guinea pig	,				
Resu		: positive					
Rema	arks	: Based on d	ata from similar materials				
Asses	ssment	: Probability o animal testi	of respiratory sensitization in humans based ng				
4-lso	cyanatosulphonylto	luene:					
Test ⁻			n node assay (LLNA)				
	es of exposure	: Skin contac	,				
Speci		: Mouse	-				
Metho			Guideline 429				
Resu		: negative					
Rema			ata from similar materials				
	es of exposure	: Inhalation					
Resu	lt	: positive					
	ssment		sensitization by inhalation.				
Rema	arks	: Based on n	ational or regional regulation.				
			s, reaction products with 2-ethylhexan-l-o				
Test	Туре	: Local lymph	n node assay (LLNA)				
		17	/ 36				

according to the Hazardous Products Regulations



REPLAST EASY 3.5 MIN, Component B

ersion .0	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019
Route Spec Meth Resu	od	 Skin contact Mouse OECD Test Guideline 429 positive
Asse	ssment	: Probability or evidence of skin sensitization in humans
Route Spec Rema		 inhalation (dust/mist/fume) Guinea pig Based on data from similar materials
Asse	ssment	: Probability of respiratory sensitization in humans based on animal testing
Tribu	utyl phosphate:	
Route Spec Resu		 Skin contact Guinea pig negative
Tosy	I chloride:	
Test	Type es of exposure ies od	 Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 positive
Asse	ssment	: Probability or evidence of high skin sensitization rate in hu- mans

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 diisocyanat	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: 5242443-0000	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019
			Route: inhalation (dust/mist/fume) ECD Test Guideline 474
Talc:			
Geno	toxicity in vitro		DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative
Geno	toxicity in vivo	Species: Ra	Route: Ingestion
Diphe	enylmethane 2,4'-Di	socyanate:	
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
Geno	toxicity in vivo	cytogenetic Species: Ra Application Method: OE Result: neg	at Route: inhalation (dust/mist/fume) ECD Test Guideline 474
2 2'-M	lethylenediphenyl c	liisoovanato:	
	toxicity in vitro	: Test Type:	Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative
Geno	toxicity in vivo	cytogenetic Species: Ra Application Method: OE Result: neg	at Route: inhalation (dust/mist/fume) ECD Test Guideline 474
Silico	on dioxide:		
Geno	toxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative
Geno	toxicity in vivo	cytogenetic Species: Ra	Route: Ingestion

according to the Hazardous Products Regulations



rsion)	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019	
4-Iso	cyanatosulphonylt	luene:	
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 	
Geno	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials 	in viv
Methy	ylenediphenyl diiso	cyanate, oligomers, reaction products with 2-ethylhexan-I-	ol:
Geno	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 (cytogenetic assay) Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials 	in viv
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-mar cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative	row
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 (cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection	in viv

according to the Hazardous Products Regulations



Method: OECD Test Guideline 474 Result: negative Carcinogenicity Suspected of causing cancer. Components: 4,4-Diphenylmethane dilsocyanate: Application Route E Rat Application Route E Inhalation (dust/mist/fume) Exposure time 2 Years Remarks E Based on data from similar materials Carcinogenicity - Assess- E Limited evidence of carcinogenicity in animal studies Pophenylmethane dilsocyanate, isomers and homologues: Species E Rat Application Route E Inhalation (dust/mist/fume) Exposure time 2 Years Result E positive Carcinogenicity - Assess- E Limited evidence of carcinogenicity in animal studies ment E Species E Rat Application Route E Inhalation (dust/mist/fume) Exposure time E deamed Application Route E Inhalation (dust/mist/fume) Exposure time E deamed Application Route E Negative Application Route E Negative Application Route E Negative	Version 4.0	Revision Date: 12/18/2023	SDS Nu 524244	imber: 3-00006	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019
Suspected of causing cancer.					est Guideline 474
Species Rat Application Route inhalation (dust/mist/fume) Exposure time 2 Years Result 2 Years Carcinogenicity - Assess- 1 Limited evidence of carcinogenicity in animal studies ment 2 Years Species 2 Years Result 1 inhalation (dust/mist/fume) Exposure time 2 Years Result 1 inhalation (dust/mist/fume) Exposure time 2 Years Result 2 Years					
4.4-Diphenylmethane diisocyanate: Species :: Replication Route :: Application Route :: Properties :: Result :: Result :: Result :: Result :: Result :: Remarks :: Based on data from similar materials Carcinogenicity - Assess- :: Imited evidence of carcinogenicity in animal studies ment : Diphenylmethane diisocyanate, isomers and homologues: Species :: Species :: Result :: Species :: Result :: Species :: Carcinogenicity - Assess- :: Imited evidence of carcinogenicity in animal studies ment : Species :: Maptication Route :: Application Route : Species : Result : Application Route :	-	-	•		
Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Limited evidence of carcinogenicity in animal studies Diphenylmethane diisocyanate, isomers and homologues: Species : Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- ment : Limited evidence of carcinogenicity in animal studies Species : Mouse Application Route : Application Route : inhalation (dust/mist/fume) : : Exposure time : 2 Years Result : : Species : Rat Application Route : inhalation (dust/mist/fume) : Exposure time : 2 Years Result : : :			cvanato:		
Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Limited evidence of carcinogenicity in animal studies Diphenylmethane diisocyanate, isomers and homologues: : Species : Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive : Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : : positive Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result		• •	-		
Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Diphenylmethane diisocyanate, isomers and homologues: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : positive Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Result : positive Result : positive Result	•			lation (dust/n	nist/fume)
Remarks :: Based on data from similar materials Carcinogenicity - Assess- :: Limited evidence of carcinogenicity in animal studies ment Diphenylmethane diisocyanate, isomers and homologues: Species :: Rat Application Route :: inhalation (dust/mist/fume) Exposure time :: 2 Years Result : positive Carcinogenicity - Assess- :: Limited evidence of carcinogenicity in animal studies ment : Species :: Species :: Mouse Application Route :: inhalation (dust/mist/fume) Exposure time :: 2 Years Result :: negative Diphenylmethane 2,4'-Diisocyanate: Species :: Species :: Rat Application Route :: inhalation (dust/mist/fume) Exposure time :: 2 Years Result :: positive Result :: positive Result : Diphenylmethane 2,4'-Diisocyanate: Species <td></td> <td></td> <td></td> <td></td> <td>,</td>					,
Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Diphenylmethane diisocyanate, isomers and homologues: Species : Rat Application Route : Inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : Species : Mouse Application Route : Inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : Inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : Inhalation (dust/mist/fume) Exposure time : 2 Years Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies Resuit : Rat Applicat					
ment Diphenylmethane diisocyanate, isomers and homologues: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : Zyears Result : Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Talc: Species : Species : Application Route : Application Route : Application Route : Species : Ment : Species : Result : Species : Result : Application Route :	Rem	arks	: Bas	ed on data fro	om similar materials
Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Talc: . Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: . Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: . Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited e		• •	: Limi	ted evidence	of carcinogenicity in animal studies
Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Talc: Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : Rat Application Ro	Dipł	nenylmethane diisocya	nate, isor	ners and ho	mologues:
Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Talc: Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : Rat Application Ro	Spec	cies	: Rat		-
Result:positiveCarcinogenicity - Assessment:Limited evidence of carcinogenicity in animal studies mentTalc:	•		: inha	lation (dust/n	nist/fume)
Carcinogenicity - Assess- ment Limited evidence of carcinogenicity in animal studies ment Talc: Species Mouse Application Route Application Route inhalation (dust/mist/fume) Exposure time 2 Years Result Diphenylmethane 2,4'-Diisocyanate: Species Rat Application Route Application Route inhalation (dust/mist/fume) Exposure time Exposure time 2 Years Result Result 2 Years Result Result 2 Years Result Remarks Based on data from similar materials Carcinogenicity - Assess- ment Limited evidence of carcinogenicity in animal studies ment Species Rat Application Route Application Route Einhalation (dust/mist/fume) Exposure time Carcinogenicity - Assess- ment Limited evidence of carcinogenicity in animal studies ment Species Rat Application Route Application Route Rat Application (dust/mist/fume) Exposure time Species Rat Rat Application Route Years Result Species Rat 					
ment Talc: Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment 2,2'-Methylenediphenyl diisocyanate: Species Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Result : positive Result : positive Remarks : positive Remarks : positive Remarks : positive<	Resu	ult	: posi	tive	
Species : Mouse Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : Dositive Result : Nation (dust/mist/fume) Exposure time : 2 Years Result : Dositive Result : 2 Years Result : Dositive Remarks : Based on data from similar materials		• •	: Limi	ted evidence	of carcinogenicity in animal studies
Application Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: negativeDiphenylmethane 2,4'-Diisocyanate:Species: RatApplication Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materialsCarcinogenicity - Assess- ment: Limited evidence of carcinogenicity in animal studies mentSpecies: RatApplication Route: linhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materialsCarcinogenicity - Assess- ment: Limited evidence of carcinogenicity in animal studies mentSpecies: RatApplication Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveResult: positiveResult: positiveRemarks: Based on data from similar materials	Talc	:			
Exposure time : 2 Years Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : Application Route Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Result : Diptication (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials	Spec	cies	: Mou	se	
Result : negative Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment 2,2'-Methylenediphenyl diisocyanate: Species Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Result : Inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials	Appl	ication Route	: inha	lation (dust/n	nist/fume)
Diphenylmethane 2,4'-Diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment : 2 Years Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : inhalation (dust/mist/fume) Exposure time : 2 Years Result : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials					
Species:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materialsCarcinogenicity - Assess- ment:Limited evidence of carcinogenicity in animal studies 2,2'-Methylenediphenyl diisocyanate: Species:Species:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materials	Resu	ult	: neg	ative	
Application Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materialsCarcinogenicity - Assess- ment:Limited evidence of carcinogenicity in animal studiesSpeciesSpecies:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materials	Diph	nenylmethane 2,4'-Diis	cyanate:		
Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materialsCarcinogenicity - Assessment: Limited evidence of carcinogenicity in animal studies 2,2'-Methylenediphenyl diisocyanate: Species: RatApplication Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materials					
Result:positiveRemarks:Based on data from similar materialsCarcinogenicity - Assess- ment:Limited evidence of carcinogenicity in animal studies 2,2'-Methylenediphenyl diisocyanate: Species:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materials				•	nist/fume)
Remarks:Based on data from similar materialsCarcinogenicity - Assess- ment:Limited evidence of carcinogenicity in animal studies2,2'-Methylenediphenyl diisocyanate::Species:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materials					
Carcinogenicity - Assessment: Limited evidence of carcinogenicity in animal studies 2,2'-Methylenediphenyl diisocyanate: Species: RatApplication Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materials					
ment 2,2'-Methylenediphenyl diisocyanate: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Result : positive Remarks : Based on data from similar materials	Rem	larks	: Bas	ed on data fro	om similar materiais
Species:RatApplication Route:inhalation (dust/mist/fume)Exposure time:2 YearsResult:positiveRemarks:Based on data from similar materials		• •	: Limi	ted evidence	of carcinogenicity in animal studies
Application Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materials	2,2'-	Methylenediphenyl dii	ocyanate):	
Application Route: inhalation (dust/mist/fume)Exposure time: 2 YearsResult: positiveRemarks: Based on data from similar materials			-		
Result: positiveRemarks: Based on data from similar materials	Appl	ication Route		lation (dust/n	nist/fume)
Remarks : Based on data from similar materials	Expo	osure time	: 2 Ye	ears	
Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies	Rem	arks	: Bas	ed on data fr	om similar materials
	Card	cinogenicity - Assess-	: Limi	ted evidence	of carcinogenicity in animal studies

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ment			Remarks: Based on national or regional regulation.
	on dioxide:		
	cation Route sure time	:	Rat Ingestion 103 weeks negative
		anat	e, oligomers, reaction products with 2-ethylhexan-l-ol:
	cation Route sure time t		Rat inhalation (dust/mist/fume) 2 Years positive Based on data from similar materials
Carcir ment	nogenicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
	tyl phosphate:		
	cation Route sure time	:	Rat Ingestion 24 month(s) positive
Carcir ment	nogenicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
•	oductive toxicity assified based on availa	able	information.
Com	oonents:		
	piphenylmethane diiso	-	
Effect	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
-	• •	nate	, isomers and homologues:
Effect	s on fetal development	÷	Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (dust/mist/fume) Result: negative
Talc: Effect	s on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative

Revision Date:

Version

according to the Hazardous Products Regulations



Date of last issue: 11/10/2022

REPLAST EASY 3.5 MIN, Component B

SDS Number:

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Diph	enylmethane 2,4'-Diiso	cvanate:	
-	ts on fetal development	: Test Type Species: F Application Result: ne	n Route: inhalation (dust/mist/fume)
2,2'-I	Methylenediphenyl diise	ocyanate:	
Effec	ts on fetal development	Species: F Application Result: ne	n Route: inhalation (dust/mist/fume)
Silic	on dioxide:		
Effec	ts on fetal development	Species: F	n Route: Ingestion
4-lsc	ocyanatosulphonyltolue	ne:	
Effec	ts on fertility	Species: F Application Method: C Result: ne	n Route: Ingestion ECD Test Guideline 416
Effec	ts on fetal development	Species: F Application Result: ne	n Route: Ingestion
Meth	ıylenediphenyl diisocya	nate, oligome	rs, reaction products with 2-ethylhexan-I-ol:
	ts on fetal development	: Test Type Species: F Application Method: C Result: ne	Embryo-fetal development Rat n Route: inhalation (dust/mist/fume) ECD Test Guideline 414
Tribu	utyl phosphate:		
	ts on fertility	Species: F	n Route: Ingestion

according to the Hazardous Products Regulations



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sion	Revision Date: 12/18/2023	-	DS Number: 242443-00006	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019
Effects	s on fetal development	:	Test Type: Emb Species: Rat Application Rou Result: negative	
Tosyl	chloride:			
Effects	s on fertility	:	reproduction/de Species: Rat Application Rou	Test Guideline 422
Effects	s on fetal development	:	reproduction/de Species: Rat Application Rou	Test Guideline 422
STOT	-single exposure			
	-single exposure ause respiratory irritati	on.		
May c	• •	on.		
May c <u>Comp</u>	ause respiratory irritation		-	
May c <u>Comp</u> 4,4'-D	ause respiratory irritati		nate:	piratory irritation.
May c <u>Comp</u> 4,4'-D Asses	ause respiratory irritati conents: iphenylmethane diisc	ocya :	nate: May cause resp	viratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe	ause respiratory irritati onents: iphenylmethane diiso sment	ocya :	nate: May cause resp , isomers and h	viratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe Asses	ause respiratory irritation oonents: iphenylmethane diiso sment mylmethane diisocya sment	ocya : nate :	nate: May cause resp , isomers and h May cause resp	piratory irritation. omologues:
May c Comp 4,4'-D Asses Diphe Asses	ause respiratory irritati ponents: iphenylmethane diiso sment nylmethane diisocya	ocya : nate :	nate: May cause resp , isomers and h May cause resp nate:	piratory irritation. omologues:
May c Comp 4,4'-D Asses Diphe Asses Diphe Asses	ause respiratory irritation onents: iphenylmethane diiso sment onylmethane diisocya sment onylmethane 2,4'-Diiso sment	nate	nate: May cause resp , isomers and h May cause resp nate: May cause resp	biratory irritation. omologues: biratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe Asses 2,2'-M	ause respiratory irritation oonents: iphenylmethane diiso sment mylmethane diisocya sment mylmethane 2,4'-Diiso	nate	nate: May cause resp , isomers and h May cause resp nate: May cause resp	biratory irritation. omologues: biratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe Asses 2,2'-M Asses	ause respiratory irritation onents: iphenylmethane diiso sment mylmethane diisocya sment mylmethane 2,4'-Diiso sment lethylenediphenyl diis sment	ocya nate ocya socy	nate: May cause resp , isomers and he May cause resp nate: May cause resp anate: May cause resp	biratory irritation. omologues: biratory irritation. biratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe Asses 2,2'-M Asses 4-Isoc	ause respiratory irritation onents: iphenylmethane diiso sment mylmethane diisocya sment mylmethane 2,4'-Diiso sment lethylenediphenyl diis	ocya nate ocya socy	nate: May cause resp , isomers and h May cause resp nate: May cause resp anate: May cause resp	biratory irritation. omologues: biratory irritation. biratory irritation.
May c <u>Comp</u> 4,4'-D Asses Diphe Asses 2,2'-M Asses 4-Isoc Asses	ause respiratory irritation onents: iphenylmethane diiso sment mylmethane diisocya sment mylmethane 2,4'-Diiso sment lethylenediphenyl diis sment sment sment	ocya i nate ocya socy i ene:	nate: May cause resp , isomers and h May cause resp nate: May cause resp anate: May cause resp	biratory irritation. omologues: biratory irritation. biratory 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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<u>Comp</u>	onents:					
4,4'-D	iphenylmethane dii	socyanate:				
Route	s of exposure	: inhalation (dus	t/mist/fume)			
	t Organs	: Respiratory Tra				
Assessment			: Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.			
Diphenylmethane diisocyanate, isomers and homologues:						
-	s of exposure	: inhalation (dus	-			
	t Organs	: Respiratory Tra				
Asses	sment		uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d.			
Diphe	enylmethane 2,4'-Di	isocyanate:				
	s of exposure	: inhalation (dus				
	t Organs sment	: Respiratory Tra				
Asses	sment		uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d.			
2,2'-M	lethylenediphenyl d	liisocyanate:				
	s of exposure	: inhalation (dus				
	t Organs	: Respiratory Tra				
	sment	: Shown to prod	uce significant health effects in animals at co			
ASSES		centrations of >	>0.02 to 0.2 mg/l/6h/d.			
	/lenediphenyl diiso		>0.02 to 0.2 mg/l/6h/d.			
Methy Route:	s of exposure	cyanate, oligomers, r e : inhalation (dus	eaction products with 2-ethylhexan-I-ol: t/mist/fume)			
Methy Route Target	s of exposure t Organs	cyanate, oligomers, re : inhalation (dus : Respiratory Tra	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act			
Methy Route Target	s of exposure	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to produ	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act			
Methy Route Target Asses	s of exposure t Organs	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to produ	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor			
Methy Route Target Asses Repea	s of exposure t Organs sment	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to produ	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor			
Methy Route Target Asses Repea	s of exposure t Organs sment ated dose toxicity	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of >	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cou			
Methy Route Target Asses Repea <u>Comp</u> 4,4'-D Specie	s of exposure t Organs sment ated dose toxicity ponents: iphenylmethane dii es	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of producent socyanate: : Rat	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor			
Methy Route: Target Asses Repea <u>Comp</u> 4,4'-D Specie NOAE	s of exposure t Organs sment ated dose toxicity <u>ponents:</u> iphenylmethane dii es	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of > socyanate: : Rat : 0,2 mg/m3	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor			
Methy Route: Target Asses Repea Comp 4,4'-D Specie NOAE LOAE	s of exposure t Organs sment ated dose toxicity ponents: iphenylmethane dii es iL	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of s socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d.			
Methy Route: Target Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic	s of exposure t Organs sment ated dose toxicity oonents: iphenylmethane dii es :L L ation Route	cyanate, oligomers, ro : inhalation (dus : Respiratory Tra : Shown to producentrations of s socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dus	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d.			
Methy Route: Target Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic	s of exposure t Organs sment ated dose toxicity onents: iphenylmethane dii es :L L ation Route sure time	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of s socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dus : 2 y	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d.			
Methy Route: Target Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic Expos Rema Diphe	s of exposure t Organs sment ated dose toxicity oonents: iphenylmethane dii es iL L sation Route sure time rks	cyanate, oligomers, re : inhalation (dus : Respiratory Tra : Shown to producentrations of s socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dus : 2 y	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d. t/mist/fume) from similar materials			
Methy Route: Target Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic Expos Rema Diphe Specie	s of exposure t Organs sment ated dose toxicity ponents: iphenylmethane dii es iL L sation Route sure time rks enylmethane diisocy	 cyanate, oligomers, respiratory Tradition (dusting in the second s	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d. t/mist/fume) from similar materials			
Methy Route: Targel Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic Expos Rema Diphe Specie NOAE	s of exposure t Organs sment ated dose toxicity <u>ponents:</u> iphenylmethane dii es L L ation Route sure time rks enylmethane diisocy es	 cyanate, oligomers, respiratory Tra Respiratory Tra Shown to producentrations of sectors socyanate: Rat 0,2 mg/m3 inhalation (dus) 2 y Based on data yanate, isomers and heat Rat 1.4 mg/m3 	eaction products with 2-ethylhexan-I-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d. t/mist/fume) from similar materials			
Methy Route: Targei Asses Repea Comp 4,4'-D Specie NOAE LOAE Applic Expos Rema Diphe Specie NOAE LOAE	s of exposure t Organs sment ated dose toxicity <u>ponents:</u> iphenylmethane dii es L L ation Route sure time rks enylmethane diisocy es	 cyanate, oligomers, respiratory Tradition (dusting in the second s	eaction products with 2-ethylhexan-l-ol: t/mist/fume) act uce significant health effects in animals at cor >0.02 to 0.2 mg/l/6h/d. t/mist/fume) from similar materials			

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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
LÕAEL	:	> 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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	Exposu Methoc	ire time I	:	34 Days OECD Test Guide	eline 422			
	Not cla	tion toxicity ssified based on availa	ble information.					
SEC	ECTION 12. ECOLOGICAL INFORMATION							
I	Ecotox	licity						
<u>(</u>	Compo	onents:						
		phenylmethane diisoo	yar	nate:				
-	Toxicity	/ to fish	:	Exposure time: 96	ipes (Orange-red killifish)): > 3,000 mg/l 5 h on data from similar materials			
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te				
	Toxicity plants	/ to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To				
				Exposure time: 72 Method: OECD Te				
i		invertebrates (Chron-	:	Exposure time: 21 Method: OECD To				
-	Toxicity	/ to microorganisms	:	Exposure time: 3 Method: OECD Te	h			
ļ	Diphenylmethane diisocyanate, isomers and homologues:							
	Toxicity	/ to fish	:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): > 1,000 mg/l S h			
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Desmode mg/l Exposure time: 72	smus subspicatus (green algae)): > 1,640 2 h			
		/ to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): > 10 mg/l ⊢d			

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ic toxi	city)			
Talc:				
Toxici	ty to fish	:	LC50 (Brachydar Exposure time: 2	nio rerio (zebrafish)): > 100,000 mg/l 4 h
Diphe	enylmethane 2,4'-Diiso	суа	nate:	
Toxici	ty to fish	:	Exposure time: 9 Method: OECD T	o (zebra fish)): > 1,000 mg/l l6 h Fest Guideline 203 on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 2 Method: OECD T	nagna (Water flea)): > 1,000 mg/l 4 h Fest Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	smus subspicatus (green algae)): > 1,640 2 h Fest Guideline 201 on data from similar materials
			Exposure time: 7 Method: OECD T	esmus subspicatus (green algae)): 1,640 m '2 h Fest Guideline 201 on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): >= 10 mg/l 1 d Fest Guideline 211 on data from similar materials
Toxici	ty to microorganisms	:		
2,2'-N	lethylenediphenyl diiso	осу	anate:	
Toxici	ty to fish	:	Exposure time: 9	pes (Japanese medaka)): > 3,000 mg/l 6 h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 2	nagna (Water flea)): 129.7 mg/l 4 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/I Exposure time: 7 Method: OECD T	smus subspicatus (green algae)): > 1,640 2 h Fest Guideline 201 on data from similar materials
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			mg/l Exposure time: 72 Method: OECD T	
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Exposure time: 27 Method: OECD T	
Toxic	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based (h
Silico	on dioxide:			
	ity to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD T	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD T	
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
	oxyalkanoic acid, com triamine, lactone and la			ocycle polymer with hydroxyalkanoic acid,
-	ity to fish	:		io rerio (zebrafish)): > 1 - 10 mg/l 5 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 10 - 100 mg/l 3 h
4-150	cyanatosulphonyltolue	no.		
	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	



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	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Method: OECD Te	
	Toxicity to algae/aquatic plants		Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
Ме	thylenediphenyl diisocya	nat	e, oligomers, read	tion products with 2-ethylhexan-I-ol:
To	xicity to fish	:	Exposure time: 96 Test substance: V	(zebra fish)): > 100 mg/l 5 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.1.
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Test substance: V	
	xicity 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.
To	xicity to microorganisms	:	EC50: > 10,000 m Exposure time: 3 Method: 88/302/E	h
Tri	butyl phosphate:			
	xicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 4.2 mg/l 5 h
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 2.6 mg/l 3 h
	xicity 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: icit	xicity to fish (Chronic tox- y)	:	NOEC (Oncorhyn Exposure time: 95	chus mykiss (rainbow trout)): 0.82 mg/l 5 d
To	xicity to daphnia and other	:	NOEC (Daphnia r	nagna (Water flea)): 0.87 mg/l

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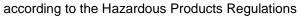
rsion	Revision Date: 12/18/2023		9S Number: 42443-00006	Date of last issue: 11/10/2022 Date of first issue: 10/30/2019
aquat ic toxi	ic invertebrates (Chron- city)		Exposure time: 2	l d
Toxici	ty to microorganisms	:	EC50: 100 mg/l Exposure time: 3 Method: OECD T	
Tosyl	chloride:			
-	ity to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD T	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 10 2 h
			NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 2.6 2 h
Toxici	ty to microorganisms	:	EC10: 240 mg/l Exposure time: 3 Remarks: Based	h on data from similar materials
Persi	stence and degradabili	ty		
Comp	oonents:	-		
	piphenylmethane diisoo	vai	nate:	
	gradability	-	Result: Not readil Biodegradation: (Exposure time: 28 Method: OECD T	0 %
Diphe	enylmethane diisocyan	ate	, isomers and hor	nologues:
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 28	0%
Diphe	enylmethane 2,4'-Diisoo	cya	nate:	
-	gradability	:	Result: Not readil Biodegradation: (Exposure time: 28	0 %

2,2'-Methylenediphenyl diisocyanate:

according to the Hazardous Products Regulations



rsion)	Revision Date: 12/18/2023	SDS Number:Date of last issue: 11/10/20225242443-00006Date of first issue: 10/30/2019
Biode	gradability	 Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Remarks: Based on data from similar materials
4-Iso	cyanatosulphonylto	uene:
Biode	gradability	 Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 28 d Method: OECD Test Guideline 301D Remarks: Based on data from similar materials
Methy	ylenediphenyl diiso	yanate, oligomers, reaction products with 2-ethylhexan-l
Biode	gradability	 Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F
Tribu	tyl phosphate:	
Biode	gradability	 Result: Readily biodegradable. Biodegradation: 92 % Exposure time: 28 d Method: OECD Test Guideline 301D
Tosyl	chloride:	
Biode	gradability	: Result: Readily biodegradable. Biodegradation: 60 % Exposure time: 28 d Method: OECD Test Guideline 301D
Bioad	cumulative potentia	I
<u>Comp</u>	oonents:	
4,4'-D) iphenylmethane dii	socyanate:
Bioac	cumulation	: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200
	ion coefficient: n- ol/water	: log Pow: 4.51
Diphe	enylmethane 2,4'-Dii	socyanate:
Partiti	ion coefficient: n- ol/water	-
2,2'-N	lethylenediphenyl d	isocyanate:
	cumulation	: Species: Cyprinus carpio (Carp) Concentration: 92 - 200 mg/l Remarks: Based on data from similar materials
		20/20





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4-lso	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 COEL / TWAEV I REL / TWA I REL / C Z-1 / C	: Time-weighted a : Time-weighted a workday during a	Average Limit (TWA) average exposure value average concentration for up to a 10-hour a 40-hour workweek t 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

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according to the Hazardous Products Regulations

REPLAST EASY 3.5 MIN, Component B

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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.

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