

MATERIAL SAFETY DATA SHEET

according to OSHA HCS

ocun	nent: MSDS_POLYUR	
1.	Identification of the	e substance/mixture and of the company/undertaking
1.1	Product identifier Trade name(s): Poly Index-No.: - CAS-No.: -	rurock Catalyst Ref.: 08052135
1.2		ses of the substance or mixture and uses advised against paration of polyurethane models for dental laboratories.
	Only for professional	l, industrial use – not for public, non-professional use. Rx only!
1.3		er of the safety data sheet A, Rue de Boujean 122, CH-2501 Biel/Bienne 2211 Fax +41 (0) 58 360 2205 <u>mailto:info@cmsa.ch</u>
1.4		ne number phone: 145 (24 h, Switzerland) Swiss Toxicological Information Centre ency phone: +41 44 251 5151 (24h, from outside Switzerland)
2.	Hazards identificat	tion
2.1	GHS Classification ir Acute toxicity, Inhala Skin irritation (Catego Eye irritation (Catego Respiratory sensitisa Skin sensitisation (C Carcinogenicity (Cate	orý 2A), H319 ation (Category 1), H334May ategory 1), H317 egory 2), H351
		n toxicity - single exposure (Category 3), Respiratory system, H335 n toxicity - repeated exposure, Inhalation (Category 2), Respiratory system, H373
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2.2	Specific target organ	
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2.2	Specific target organ Label elements Pictograms	n toxicity - repeated exposure, Inhalation (Category 2), Respiratory system, H373
2.2	Specific target organ Label elements Pictograms Signal word Hazard statement(s) H315	n toxicity - repeated exposure, Inhalation (Category 2), Respiratory system, H373
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	P501	Dispose o	f contents/ conta	ainer to an approv	ed waste dis	oosal plant.			
	Hazard symbols	Xn Xn	harmful						
		Xi Xi	irritant						
	R-phrases R20 R36/37/38 R40 R42/43 R48/20	harmful by inhalation irritating to eyes, respiratory system and skin limited evidence of a carcinogenic effect may cause sensitisation by inhalation and skin contact danger of serious damage to health by prolonged exposure through inhalation							
	S-phrases S23 S36/37 S45	wear suita in case of	athe vapour ble protective cl accident or if yc label where pos	othing and gloves u feel unwell, see ssible)	; k medical ad	vice immediately			
	Hazardous substance Diphenylmethane-4,4								
2.3	Other hazards No hazardous reaction	ons known whe	en used accordi	ng to the instructio	ons for use.				
3.	Composition/inform	nation on ing	redients						
	Chemical characteriz Diphenylmethandiiso								
	Hazardous ingredien Chemical name	ts	Formula	Concentration	CAS-No.		CUS Sumbola		
			Formula	Concentration [% by weight]	CAS-NO.	H phrases	GHS Symbols		
	Diphenylmethane- 4,4'-diisocyanate		C ₁₅ H ₁₀ N ₂ O ₂	50-100	101-68-8	H315, H317, H319, H332, H334, H335, H351, H373			
4.	First-aid measures						·		
4.1	Description of first aid	d measures							
	Inhalation: Move tofro Mouth-to-mouth resp after first aid. Eye contact: Rinse th	iration might b	e hazardous, be immediately wit	ecause the inhaled	d material is h or several mir	armful. Contact do nutes, then contact	ctor immediately doctor.		
	Skin contact: Immedi Wash contaminated Ingestion: Rinse mou	ately remove a clothing carefu	lly before re-use	ed by the product,					
4.2	Wash contaminated	ately remove a clothing carefu ith and drink w toms and effec ng may even c	lly before re-use ater (max. two g ots, both acute a	ed by the product, e. glasses). Do not in ind delayed	nduce vomitin	g. Call for medical I	help immediately.		
	Wash contaminated of Ingestion: Rinse mou Most important symp Symptoms of poisoni	ately remove a clothing carefu ith and drink w toms and effec ng may even c ided. nediate medica	Ily before re-use ater (max. two g ets, both acute a occur after seven I attention and s	ed by the product, a. glasses). Do not ir and delayed ral hours; therefor	nduce vomitin e medical obs	g. Call for medical I	help immediately.		
4.3	Wash contaminated of Ingestion: Rinse mou Most important symp Symptoms of poisoni incident is recomment Indication of any imm	ately remove a clothing carefu ith and drink w toms and effect ng may even o nded. nediate medica irritation or ill e	Ily before re-use ater (max. two g ets, both acute a occur after seven I attention and s	ed by the product, a. glasses). Do not ir and delayed ral hours; therefor	nduce vomitin e medical obs	g. Call for medical I	help immediately.		
4.3 5.	Wash contaminated of Ingestion: Rinse mou Most important symp Symptoms of poisoni incident is recommer Indication of any imm Contact doctor upon	ately remove a clothing carefu ith and drink w toms and effecting may even o ided. nediate medica irritation or ill e res appropriate. T	Ily before re-use ater (max. two g sts, both acute a sccur after seven I attention and s ffects.	ed by the product, e. glasses). Do not in and delayed ral hours; therefor special treatment r	nduce vomitin e medical obs	g. Call for medical I servation for at leas	help immediately.		
4.2 4.3 5. 5.1 5.2	Wash contaminated of Ingestion: Rinse mou Most important symp Symptoms of poisoni incident is recommer Indication of any imm Contact doctor upon Firefighting measu Extinguishing media CO ₂ and powder are	ately remove a clothing carefu ith and drink w toms and effec ing may even o nded. nediate medica irritation or ill e res appropriate. T not recommen ng from the su	Ily before re-use ater (max. two g ets, both acute a occur after seven I attention and s offects. he extinguishing ded. bstance or mixto	ed by the product, e. glasses). Do not in and delayed ral hours; therefor special treatment r g medium should h	nduce vomitin e medical obs needed	g. Call for medical I servation for at leas	help immediately.		

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions Prevent seepage into sewage system and cellars. 6.3 Methods and material for containment and cleaning up Absorb spillage in suitable inert material, then dispose as hazardous waste according to local regulation. Sweep up a shovel into suitable containers for disposal. 6.4 Reference to other sections See §13 for disposal. 7. Handling and storage 7.1 Precautions for safe handling Handle with caution and minimize exposure. Ensure good ventilation/exhaustion at the workplace. Keep away from h and sources of ignition. Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow in case of incidents. Avoid exposure to persons having suffered from chronic respiratory affectio (especially asthmatic and bronchitic persons) and those having an isocyanate allergy. 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed. Protect from humidity, freezing and heat. Store in a refrigerator. Prevent any seepage i ground. 7.3 Specific end use(s) Observe instructions for use. 8. Exposure control and personal protection 	6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions Prevent seepage into sewage system and cellars. 6.3 Methods and material for containment and cleaning up Absorb spillage in suitable inert material, then dispose as hazardous waste according to local regulation. Sweep up a shovel into suitable containers for disposal. For disposal. 7. Handling and storage 7.1 Precautions for safe handling Handle with caution and minimize exposure. Ensure good ventilation/exhaustion at the workplace. Keep away from h and sources of ignition. Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow in case of incidents. Avoid exposure to persons having suffered from chronic respiratory affection (especially asthmatic and bronchitic persons) and those having an isocyanate allergy. 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed. Protect from humidity, freezing and heat. Store in a refrigerator. Prevent any seepage i ground. Specific end use(s) Observe instructions for use. Substance <u>Diphenylmethane-4.4⁺ 101-68-8 TWA 0.0050 ppm USA. CGHT Threshold Limits for Aria Containinants - 1910-1000 The value in mg/m³ is approximate. <u>Camg/m³ USA. CGHT Threshold Limits for Aria Containinants - 1910-1000 The value in mg/m³ is approximate. <u>Camg/m³ USA. NIOSH Recommended Exposure Limits 10 minute ceiling value <u>0.20 ppm USA. NIOSH Recommended Exposure Limits <u>10 minute ceiling value <u>0.20 ppm USA. NIOSH Recommended Exposure Limits <u>10 minute ceiling value <u>0.20 ppm USA. NIOSH Recommended Exposure Limits <u>10 minute ceiling value <u>0.20 ppm USA. NIOSH Recommended Exposure <u>10 minute ceiling value <u>10 minute ceiling value <u>10</u></u></u></u></u></u></u></u></u></u></u></u></u>						
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8.2 Exposure controls			It is advisable to take preca	autions to avoid	I contact with	ı skin and eyes when ha	ndling the product.
8.2 Exposure controls Equipment for individual protection It is advisable to take precautions to avoid contact with skin and eyes when handling the product. Use only in well ventilated areas.	It is advisable to take precautions to avoid contact with skin and eyes when handling the product.		Respiratory protection: In c	ase of insufficion	ent ventilatio	n, wear suitable respirat	ory equipment.
Equipment for individual protection It is advisable to take precautions to avoid contact with skin and eyes when handling the product.	It is advisable to take precautions to avoid contact with skin and eyes when handling the product. Use only in well ventilated areas.		Eye protection: Wear safet	y goggles.			
Equipment for individual protection It is advisable to take precautions to avoid contact with skin and eyes when handling the product. Use only in well ventilated areas.	It is advisable to take precautions to avoid contact with skin and eyes when handling the product. Use only in well ventilated areas. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.		Hand protection: Wear suit	able protective	gloves.		

Hand protection: Wear suitable protective gloves. Skin protection: Wear suitable laboratory coat.

Specific hygiene measures

Strictly observe the usual safety measures applied in laboratories. Wash hands carefully before breaks and at the end of work.

	Environmental exposure controls Do not allow to enter public sewers and water courses. See also §13 for disposal.
Э.	Physical and chemical properties
9.1	Information on basic physical and chemical properties (appearance) Physical state: Liquid. Colour: Amber.
	Odour: Typical. Weakly aromatic.
9.2	Other information(health, safety and environment related data)
	Flash point: > 200 °C. Ignition temperature: > 500 °C. Fire promoting properties: The product is not fire promoting. Explosion hazard: The product is not explosive. Vapour pressure: Not available.
	Relative density: 1.2 g/cm ³ Solubility: Soluble in ether, toluene, acetone, ethyl acetate.
	pH-value: Not applicable. Miscibility with water: Hydrolyses in presence of water. Viscosity: Not available.
10.	Stability and reactivity
10.1	Reactivity The product does not react with other substances when stored and used according to the instructions for use.
10.2	Chemical stability The product is stable when stored and used according to the instructions for use.
10.3	Possibility of hazardous reactions Keep away from oxidising agents. Violent reactions with -NHx, -OH and -SH- groups. Forms explosive mixture with air on intense heating.
10.4	Conditions to avoid The product is sensitive to moisture and tends to polymerize at higher temperatures.
10.5	Incompatible materials Copper and copper alloys, mild steel, zinc.
10.6	Hazardous decomposition products Combustion gases: Nitrogen oxides NO _x , carbon monoxide CO and carbon dioxide CO ₂ , hydrogen cyanide HCN. In the presence of water or humidity gas is produced (CO ₂), possibly leading to internal pressure rises and risk of container bursting.
11.	Toxicological information
11.1	Information on toxicological effects
	For components: Name: Diphenylmethane-4,4'-diisocyanate CAS-No.: 101-68-8
	Acute toxicity LD50 (oral,rat): 9,200 mg/kg LC50 (inhalation, rat, 1 h): > 2.24 mg/l
	Skin corrosion/irritation No data available
	Serious eye damage/eye irritation Eyes - Rabbit Result: Moderate eye irritation
	Respiratory or skin sensitisation in vivo assay - Guinea pig Result: May cause sensitisation by inhalation. in vivo assay - Mouse
	Result: May cause sensitisation by skin contact.

	Germ cell mutagenicity
	Laboratory experiments have shown mutagenic effects. Ames test
	S. typhimurium
	Result: negative
	Mutagenicity (micronucleus test) Bat - male
	Result: negative
	Carcinogenicity
	Limited evidence of carcinogenicity in animal studies
	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans
	ACGIH: Not identified as a carcinogen or potential carcinogen by ACGIH. NTP: Not identified as a known or anticipated carcinogen by NTP.
	OSHA: Not identified as a carcinogen or potential carcinogen by OSHA.
	Perroductive texisity
	Reproductive toxicity No data available
	Reproductive toxicity - Rat - Inhalation
	Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system. No data available
	Specific target organ toxicity - single exposure
	Inhalation - May cause respiratory irritation Respiratory system
	Specific target organ toxicity - repeated exposure
	Inhalation - May cause damage to organs through prolonged or repeated exposure Respiratory system
	Aspiration hazard
	No data available
	For product:
	Effects of acute exposure
	Primary skin irritation effects: Causes skin irritation. Primary eye and respiratory irritation effects: Causes serious eye irritation.
	Sensitizing: Sensitizing possible through inhalation or skin contact.
	Sub acute to chronicle toxicity / experience on humans May cause allergy or asthma symptoms or breathing difficulties when inhaled.
	May cause an allergic skin reaction.
	Suspected of causing cancer.
	Additional information
	After vomiting of swallowed product aspiration into lungs is likely.
12.	Ecological information
	-
12.1	Toxicity
	For components:
	Name: Diphenylmethane-4,4'-diisocyanate CAS-No.: 101-68-8
	EC50 (Daphnia magna, 24 h): 0.35 mg/L
	2000 (Baprina magna, 27 n). 0.00 mg/2
	For product:
	No data available. Do not allow to enter water, waste water or soil.
12.2	Persistence and degradability
	No data available.
12.3	Bioaccumulative potential
	No data available.
10/	Mobility in coll
12.4	Mobility in soil No data available.
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12.5	Results of PBT and vPvB assessment No data available.
12.6	Other adverse effects
	No data available.

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13.	Disposal considerations
13.1	Waste treatment methods
	Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
	Used package Recommendation: Dispose of as unused product.
14.	Transport information
14.1	UN number
	UN2810
14.2	UN proper shipping name
	TOXIC LIQZID; ORGANIC; N.O.S. (Diphenylmethane-4,4'-diisocyanate)
14.3	Transport hazard class(es)
	6.1
14.4	Packing group
	II and the second s
14.5	Environmental hazards
	-
14.6	Special precautions for user
	Tunnel Code E
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
	Not applicable
15.	Regulatory information
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Name: Diphenylmethane-4,4'-diisocyanate Revision Date: 2011-07-01
	SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard
15.2	Chemical safety assessment No data available.

Other information	
Full text of Statements	referred to under sections 2 and 3.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 P271	Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
1 004 T 1 040	breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P321	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
R20	harmful by inhalation
R36/37/38	irritating to eyes, respiratory system and skin
R40	limited evidence of a carcinogenic effect
R42/43	may cause sensitisation by inhalation and skin contact
R48/20	danger of serious damage to health by prolonged exposure through inhalation
S23	do not breathe vapour
S36/37	wear suitable protective clothing and gloves
S45	in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
HMIS Rating	
Health hazard:	2
Chronic health hazard:	*
Flammability:	1
···· · · · · · · · · · · · · · · · · ·	0
Physical Hazard:	
Physical Hazard:	
Physical Hazard: NFPA Rating	
	2
NFPA Rating	

Changes made since last edition Completely new edition.