Forsch Polymer Corp.

SAFETY DATA SHEET ISO 920A Version: 1.0 **Revision Date:** 12/05/2014 Print Date: 07/02/2015 **SECTION 1. PRODUCT AND IDENTIFICATION COMPANY** Product name : ISO 920A Product Use Description: Used in polyurethane manufacturing. Forsch Polymer Corp. 3025 S. Wyandot St. Company: Englewood, CO. 80110 United States of America Telephone: (US) (303) 322-9611 (303) 548-7716 Emergency telephone number: For additional emergency telephone numbers see section 16 of the Safety Data Sheet. Bill@forschpolymer.com James@forschpolymer.com Prepared by chemical Recommended use : Used in polyurethane manufacturing.

Restrictions on use : Reserved for industrial and professional us	strictions on use	: Reserved for industrial and professional use.
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Form	viscous liquid	
Colour	colourless	
Odour	slight	
GHS Classification		
Acute toxicity (Inhalation)	: Category 4	
Respiratory sensitisation	: Category 1	
Skin sensitisation	: Category 1	
Carcinogenicity	: Category 2	
GHS Label element		
Signal word	: Danger	

SAFETY DATA SHEET th Polymer Corp.				
ISO 920A				
Version: 1.0	Revision Date: 12/05/2014 Print Date: 07/02/20			
Hazard pictograms				
Hazard statements	 H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. 			
Other hazards	: None			
Precautionary statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P271 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. P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection. Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. Btorage: P405 Store locked up. Dispose of contents/ container to an approved waste disposal plant. 			
Carcinogenicity:				
IARC OSHA	Group 2B: Possibly carcinogenic to humans m-tolylidene diisocyanate 26471-62-5 No component of this product present at levels greater than or			
NTP	equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reasonably anticipated to be a human carcinogen m-tolylidene diisocyanate 26471-62-5			
	2/10			

Forsch Polymer Corp.

ISO 920A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 07/02/2015

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
m-tolylidene diisocyanate	26471-62-5	>= 0.1 - < 1 %

SECTION 4. FIRST AID MEASURES

If inhaled	: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact	Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Obtain medical attention. Wash contaminated clothing before re-use. Destroy contaminated shoes.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	: Do NOT induce vomiting. Immediately give large quantities of water to drink. If possible drink milk afterwards. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	: Lachrymation Breathing difficulties sensitising effects
Notes to physician	Oxygen, if needed. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Dry chemical
Specific hazards during firefighting	: Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
	3/10

	ISO 9)20A	
/ersion: 1.0	Revision Date:	12/05/2014	Print Date: 07/02/2015
Specific extinguishing methods	Keep away f Use water sp Prevent fire o	rom fire, sparks and l pray to cool unopened	d containers. om contaminating surface
Special protective equipment for firefighters		of fire, wear self-cont e flameproof clothing	ained breathing apparatus.
ECTION 6. ACCIDENTAL RELEAS	E MEASURES		
Personal precautions, protective equipment and emergency procedures		rsonnel to safe areas e protective clothing, area.	
Environmental precautions	Do not flush	e released into the en into surface water or il penetration.	nvironment. sanitary sewer system.
Methods and materials for containment and cleaning up	acid binder,		erial (e.g. sand, silica gel, dust). Pick up and transfer to ilate the area.
ECTION 7. HANDLING AND STOR	AGE		
Advice on safe handling	Wear persor Use only witl Do not breat Protect from		ent.
Conditions for safe storage	ventilated pla Protect from Keep under Container ca	moisture. nitrogen.	carbon dioxide due to
Materials to avoid	: Water, Alcoh	ols, Strong oxidizing	agents
SECTION 8. EXPOSURE CONTRO	DLS/PERSONAL	PROTECTION	
Components with workplace	control paramet	ers	

Forsch Polymer

n:	1.0	Revision Date:	12/05/2014	Prin	t Date: 07/02/201
	1.0	Revision Date.	12/03/2014		1 Date: 07/02/201
	Components	CAS-No.	Form of exposure	Permissible concentration	Basis
	m-tolylidene diisocyanate	26471-62-5	TWA	0.005 ppm	ACGIH
			STEL	0.02 ppm	ACGIH
			С	0.02 ppm 0.14 mg/m3	OSHA Z-1
			TWA	0.005 ppm 0.04 mg/m3	OSHA PO
			STEL	0.02 ppm 0.15 mg/m3	OSHA PO
	Engineering measures	Ensure that through the Ensure that	t extracted air ca ventilation syst	or general area contr annot be returned to t em. ns and safety showe	he workplace
	Personal protective equipr	nent			
	Respiratory protection	limit they m	lust use appropr	ncentrations above the transferred to the termination of termi	ors.
	Hand protection Remarks	: Impervious I	outyl rubber glov	res	
	Eye protection		es with side-shi g safety goggles		
	Skin and body protection	impervious of	clothing		
	Hygiene measures	temperatur Purge oper Do not use torches. Make sure using.	es above 140°F drums with nitr spot heating de contents are con	and prolonged expos (60°C). ogen before resealin vices such as band h npletely liquid and ur FIN FOR ADDITION/	g. leaters or hiform before
	SECTION 9. PHYSICAL ANI	O CHEMICAL PROF	PERTIES		
	Appearance	: viscous liqu	id		
	Color	: colourless			
	Odor	: slight			
	Odour Threshold	: No data ava	ailable		
	рН	: Not applical	ble		
	Melting point/range				
			/ 10		

Forsch Polymer

ISO 920A

Revision Date: 12/05/2014 Not applicable No data available > 204 °C Method: closed cup No data available : o data available : o data available : o data available : 0 data available : 0 data available :	Print Date: 07/02/2015
No data available No data available > 204 °C Method: closed cup No data available : o data available : o data available : o data available :	
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.02 - 1.11 (20 °C)	
Decomposes in contact with water.	
Solvent: Tetrahydrofuran	
No data available	
No data available	
No data available	
400 - 22,500 mPa.s (30 - 100 °C) Method: No information available.	
No data available	
	Decomposes in contact with water. soluble Solvent: Dimethylformamide Solvent: Tetrahydrofuran No data available No data available No data available 400 - 22,500 mPa.s (30 - 100 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Extremes of temperature and direct sunlight. Exposure to moisture. Contamination
	6/10

Forsch Polymer	SAFETY DATA SHEET				
ISO 920A					
Version: 1.0	Revision Date: 12/05/2014 Print Date: 07/02/2015				
Incompatible materials	: Water Alcohols Strong oxidizing agents				
Hazardous decomposition products	Carbon oxides Hydrocarbons Nitrogen oxides (NOx) Isocyanates				
SECTION 11. TOXICOLOGICAL IN	IFORMATION				
Acute oral toxicity m-tolylidene diisocyanate (Component)	: LD50: > 5,000 mg/kg Species: Rat				
Acute inhalation toxicity (Product)	: Acute toxicity estimate: 10 mg/l Exposure time: 4 h Method: Calculation method				
Acute dermal toxicity m-tolylidene diisocyanate (Component)	: LD50: > 9,400 mg/kg Species: Rabbit				
Skin irritation m-tolylidene diisocyanate (Component)	: Species: Rabbit Result: Severe skin irritation				
Eye irritation m-tolylidene diisocyanate (Component)	: Species: Rabbit Result: Risk of serious damage to eyes.				
Sensitisation (Product)	: Remarks: May cause sensitisation by inhalation. May cause sensitisation of susceptible persons by skin contac				
Aspiration toxicity (Product)	: No aspiration toxicity classification				
Further information (Product)	: The product itself has not been tested.				
	7 / 10				

Forsch Polymer

SAFETY DATA SHEET

ISO 920A					
n: 1.0		Revision Date:	12/05/2014	Print Date: 07/02/2015	
SECTION 12. EC	OLOGICAL INFO	RMATION			
Ecotoxicity	effects				
Toxicity to fis	n (Product)	: Remarks: No data availat	ble		
	e diisocyanate	EC50: 12.5 mg Exposure time:	48 h shrimp (Palaemonete /I		
Toxicity to alg	ae				
	e diisocyanate	: EC50: 4,300 m Exposure time: Species: Chlore		ater algae)	
Elimination	n information (per	sistence and degra	dability)		
Bioaccumu	ation (Product)	: Remarks: No data availat	ble		
Mobility (Pr	oduct)	: Remarks: No data availat	ble		
Biodegrada	bility (Product)	: Result: No data	a available		
Further inf	ormation on ecol	ogy			
Ecotoxicol	ogy Assessment				
	cological	red to be persistent, I	bioaccumulating and t as no known ecotoxico		
SECTION 13. D		DERATIONS			
Disposal m					
Waste from			with local and nation classified and labelle	al regulations. d prior to recycling or	
			8 / 10		

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	, mor				
ISO 920A					
/ersion:	1.0	Revision Date: 12/05/2014	Print Date: 07/02/2015		
		Do not contaminate ponds, waterwa chemical or used container.	ays or ditches with		
	Contaminated packaging	: In well ventilated area, fill drums with water. Leave drum open and slowly water contact. Leave open to air for	shake and roll to allow		
	SECTION 14. TRANSPORT IN	FORMATION			
	ADR Not dangerous goods				
	RID Not dangerous goods				
	MERCOSUR Not dangerous goods				
	DOT Not dangerous goods				
	IATA Not dangerous goods				
	IMDG Not dangerous goods				
	SECTION 15. REGULATORY	NFORMATION			
	SARA 311/312 Hazards	: Acute Health Hazard Chronic Health Hazard			
	US State Regulations				
	California Prop 65	WARNING! This product contains a c State of California to cause cancer.			
		e diisocyanate 2647	′1-62-5 The		
	components of this product US.TSCA	are reported in the following inventorie On TSCA Inventory	9S:		
		9/1			

SAFETY DATA SHEET					
orsch					
olymer					
ISO 920A					
Version:	1.0	Revision Date: 12/05/2014	Print Date: 07/02/2015		
	DSL	All components of this product are c	on the Canadian DSI		
AICS	202	On the inventory, or in compliar			
	NZIoC	Not in compliance with the inventory			
	ENCS	On the inventory, or in compliance w			
	KECI	On the inventory, or in compliance w On the inventory, or in compliance w			
	PICCS IECSC	On the inventory, or in compliance v			
	12000	On the inventory, of in compliance v			
5	SECTION 16. OTHER IN	FORMATION			
		provided in this Safety Data Sheet is correct to t f at the date of its publication. The information gi			
		andling, use, processing, storage, transportation			
		idered a warranty or quality specification. The inf			
		designated and may not be valid for such materia			
	with any other mater	als or in any process, unless specified in the text	t.		
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