Forsch Polymer Corp.

ISO 910A Version: 1.0 **Revision Date:** 12/05/2014 Print Date: 07/02/2015 **SECTION 1. PRODUCT AND IDENTIFICATION COMPANY** Product name : ISO 910A 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 2 Used in polyurethane manufacturing. Restrictions on use Reserved for industrial and professional use. 2

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	

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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	 Frevention: 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. P303 + 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. Storage: P405 Store locked up. Disposal: P501 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 equal to 0.1% is identified as a carcinogen or potential	
NTP	carcinogen by OSHA. Reasonably anticipated to be a human carcinogen m-tolylidene diisocyanate 26471-62-5	
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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.
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Specific extinguishing methods	Keep away from fire, sparks Use water spray to cool uno	pened containers. ater from contaminating surface	
Special protective equipment for firefighters	In the event of fire, wear self Full protective flameproof clo	-contained breathing apparatus. othing	
ECTION 6. ACCIDENTAL RELEAS	E MEASURES		
Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe a Wear suitable protective clot protection. Ventilate the area.		
Environmental precautions	: Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.		
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Ventilate the area.		
ECTION 7. HANDLING AND STOR	AGE		
Advice on safe handling	 Avoid contact with skin, eyes Wear personal protective eq Use only with adequate vent Do not breathe vapours or sp Protect from moisture. Open drum carefully as cont 	uipment. ilation. pray mist.	
Conditions for safe storage	Keep containers tightly close ventilated place. Protect from moisture. Keep under nitrogen. Container can be pressurize reaction with humid air and/o	d by carbon dioxide due to	
Materials to avoid	: Water, Alcohols, Strong oxid	izing agents	
SECTION 8. EXPOSURE CONTRO	DLS/PERSONAL PROTECTION		
Components with workplace	control parameters		

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	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	for general area contr annot be returned to t em. ns and safety showe	he workplace
	Personal protective equipn	nent			
	Respiratory protection	limit they m	lust use appropi	ncentrations above the iate certified respirate upplied-air respirator	ors.
	Hand protection Remarks	: Impervious I	outyl rubber glov	/es	
	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 co	and prolonged expos (60°C). ogen before resealin vices such as band h mpletely liquid and un TIN FOR ADDITION/	g. leaters or hiform before
	SECTION 9. PHYSICAL AND	CHEMICAL PROF	PERTIES		
	Appearance	: viscous liqu	id		
	Color	: colourless			
	Odor	: slight			
	Odour Threshold	: No data ava	ailable		
	рH	: Not applical	ble		
	Melting point/range				
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Not applicable	
: No data available	
: No data available	
: > 204 °C Method: closed cup	
: No data available :	
No data available :	
No data available :	
No data available :	
1.02 - 1.11 (20 °C)	
: 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) Method: No information available.	
: No data available	
	 : > 204 °C Method: closed cup : No data available : No data available : No data available : No data available : 1.02 - 1.11 (20 °C) : Decomposes in contact with water. : soluble Solvent: Dimethylformamide Solvent: Tetrahydrofuran : No data available

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
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Incompatible materials	: Water Alcohols Strong oxidizing agents			
Hazardous decomposition products	Carbon oxides Hydrocarbons Nitrogen oxides (NOx) Isocyanates			
SECTION 11. TOXICOLOGICAL IN	FORMATION			
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 contact.			
Aspiration toxicity (Product)	: No aspiration toxicity classification			
Further information (Product)	: The product itself has not been tested.			
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SECTION 12. EC	OLOGICAL INFO	RMATION		
Ecotoxicity	effects			
Toxicity to fis	n (Product)	: Remarks: No data availat	le	
	e diisocyanate	EC50: 12.5 mg Exposure time:	48 h shrimp (Palaemonet /I	
Toxicity to alo m-tolylidene (Componer	e diisocyanate	: EC50: 4,300 m Exposure time: Species: Chlore		ater algae)
Elimination	information (per	sistence and degra	dability)	
Bioaccumul	ation (Product)	: Remarks: No data availat	ble	
Mobility (Pr	oduct)	: Remarks: No data availat	ble	
Biodegrada	bility (Product)	: Result: No data	available	
Further inf	ormation on ecole	ogy		
Ecotoxicol	ogy Assessment			
	cological	ed to be persistent, I	pioaccumulating and as no known ecotoxico	
SECTION 13. D	SPOSAL CONSIE	DERATIONS		
Disposal m				
Waste from			with local and nation classified and labelle	al regulations. d prior to recycling or
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		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 INI	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	INFORMATION	
	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
	US.TSCA	are reported in the following inventorie On TSCA Inventory	50.
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			an the Consultan DOI
AICS	DSL	All components of this product are of On the inventory, or in complia	
	NZIoC	Not in compliance with the inventor	
	ENCS	On the inventory, or in compliance	
	KECI	On the inventory, or in compliance	
	PICCS	On the inventory, or in compliance	
	IECSC	On the inventory, or in compliance	with the inventory
:	SECTION 16. OTHER II	NFORMATION	
	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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release		
		idered a warranty or quality specification. The in	
	the specific material designated and may not be valid for such material used in combination		
	with any other mater	als or in any process, unless specified in the tex	t.
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