Forsch Polymer Corp.

SAFETY DATA SHEET

ISO 710A					
Version: 1.0	Revision Date:	12/05/2014	Print Date: 07/02		
SECTION 1. PRODUCT AND	IDENTIF	ICATION			
COMPANY Product name	: ISO 710A				
Product Use Description:	Used in polyurethane manu	facturing.			
Company:	Forsch Polymer Corp. 3025 S. Wyandot St. Englewood, CO. 80110 United States of America				
	Telephone: (US) (303) 322-	9611			
Emergency telephone number:	(303) 548-7716				
	For additional emergency to Sheet.	elephone numbers see	e section 16 of the Safety		
Prepared by	Bill@forschpolymer.com James@forschpolymer.com	1			
chemical Recommended use	: Used in polyurethane m	anufacturing.			
Restrictions on use	: Reserved for industrial a	-			
2. HAZARDS IDENTIFIC					
Form	viscous liquid				
Colour	colourless				
Odour	slight				

GHS Classification

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Signal word	:	Danger	
GHS Label element			
Acute toxicity (Inhalation) Respiratory sensitisation Skin sensitisation Carcinogenicity	::	Category 4 Category 1 Category 1 Category 2	

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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. P333 wash contaminated clothing before reuse. Bargeosal P405 Store locked up. 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 and h cool unopened shing water fro	containers. om contaminating surface
Special protective equipment for firefighters	In the event of fire, v Full protective flame		ined breathing apparatus.
ECTION 6. ACCIDENTAL RELEAS	E MEASURES		
Personal precautions, protective equipment and emergency procedures	: Evacuate personnel Wear suitable protection. Ventilate the area.		
Environmental precautions	: Should not be releas Do not flush into sur Avoid subsoil penet	face water or	vironment. sanitary sewer system.
Methods and materials for containment and cleaning up		al binder, sawo	rial (e.g. sand, silica gel, dust). Pick up and transfer to late the area.
ECTION 7. HANDLING AND STOR	AGE		
Advice on safe handling	: Avoid contact with s Wear personal prote Use only with adequ Do not breathe vapo Protect from moistur Open drum carefully	ective equipme late ventilation ours or spray n re.	nt.
Conditions for safe storage	Keep containers tigh ventilated place. Protect from moistu Keep under nitroger Container can be pr reaction with humid	re. n. essurized by c	arbon dioxide due to
Materials to avoid	: Water, Alcohols, Str	ong oxidizing a	agents
SECTION 8. EXPOSURE CONTRO	DLS/PERSONAL PROTE	CTION	
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 equipr	nent			
	Respiratory protection	limit they m	lust use appropr	ncentrations above the transformed text is a certified respirate upplied-air respirator	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 mpletely liquid and ur FIN FOR ADDITION/	g. leaters or niform before
	SECTION 9. PHYSICAL AND	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				
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	Not applicable			
Boiling point/boiling range	: No data available			
Evaporation rate	: No data available			
Flash point	: > 204 °C Method: closed cup			
Upper explosion limit	: No data available :			
Lower explosion limit	No data available :			
Vapour pressure	No data available :			
Relative vapour density	No data available :			
Relative density	1.02 - 1.11 (20 °C)			
<u>Solubility(ies)</u>				
Water solubility	: Decomposes in contact with water.			
Solubility in other solvents	: soluble Solvent: Dimethylformamide			
	Solvent: Tetrahydrofuran			
Partition coefficient: n- octanol/water	: No data available			
Auto-ignition temperature	: No data available			
Thermal decomposition	: No data available			
Viscosity				
Viscosity, dynamic	: 400 - 22,500 mPa.s (30 - 100 °C) Method: No information available.			
Viscosity, kinematic	: No data available			

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 I	NFORMATION				
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.				
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SECTION 12. ECOL	OGICAL INFO	RMATION			
Ecotoxicity ef	fects				
Toxicity to fish (I	Product)	: Remarks: No data availab	le		
Toxicity to daphi m-tolylidene di (Component)		Exposure time: Species: Grass EC50: 12.5 mg Exposure time:	48 h shrimp (Palaemonet /I		
Toxicity to algae m-tolylidene di (Component)		: EC50: 4,300 m Exposure time: Species: Chlore		ater algae)	
Elimination ir	formation (per	sistence and degra	dability)		
Bioaccumulation	on (Product)	: Remarks: No data availab	le		
Mobility (Produ	uct)	: Remarks: No data availab	le		
Biodegradabili	ty (Product)	: Result: No data	available		
Further inform	nation on ecol	ogy			
Ecotoxicolog	y Assessment				
	logical	red to be persistent, I	bioaccumulating and is no known ecotoxic		
SECTION 13. DISF	OSAL CONSI	DERATIONS			
Disposal met	hods				
Waste from re	sidues		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.	ys or ditches with		
	Contaminated packaging	: In well ventilated area, fill drums with several centimeters of water. Leave drum open and slowly shake and roll to allow water contact. Leave open to air for sufficient time to cure.			
	SECTION 14. TRANSPORT INF	ORMATION			
	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 I	NFORMATION			
	SARA 311/312 Hazards	: Acute Health Hazard Chronic Health Hazard			
	US State Regulations				
	California Prop 65	WARNING! This product contains a ch State of California to cause cancer.	nemical known to the		
		e diisocyanate 2647 are reported in the following inventorie	1-62-5 The s:		
	US.TSCA	On TSCA Inventory			
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AICS	DSL	All components of this product are				
		On the inventory, or in complia				
	NZIOC ENCS	Not in compliance with the inventor				
	KECI	On the inventory, or in compliance On the inventory, or in compliance				
	PICCS	On the inventory, or in compliance				
	IECSC	On the inventory, or in compliance				
:	SECTION 16. OTHER II	VFORMATION				
		provided in this Safety Data Sheet is correct to				
		of at the date of its publication. The information g nandling, use, processing, storage, transportation				
		idered a warranty or quality specification. The in				
	the specific material	designated and may not be valid for such materi	al used in combination			
	with any other mater	ials or in any process, unless specified in the tex	t.			
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